

Austria ... Sch. 18 Indosenia ... Rp. 2500 Portugal ... Scc. 25 Indosenia ... Du. 8,650 Indy ... 1100 S. Arabas ... Six 6,00 Sagapase ... S\$ 4,00 Sagapase ... S\$ 4,10 Sagapase .

# FINANCIALTIMES

EUROPE'S BUSINESS NEWSPAPER Monday April 9 1984

D 8523 B

GENERAL

### Shuttle repair mission setback

U.S. space shuttle mission will re- JAPAN and the U.S. reached agree sume its attempt to retrieve the \$77m Solar Max satellite after the failure of the tricky, manned space

lite, but the docking pin he tried to install failed to connect properly. Further attempts to grab onto So-lar Max using the shuttle's robot arm also failed. Page 18

### Clashes in Beirut

Fresh fighting in and around Beirut dampened prospects for a disengagement plan approved by a mili-tary commission of Lebanese army, Christian militia, Druze and Mos-lem groups. Page 2

### Soviet 'spy' warning

Soviet fighter pilots complained of spy flights by Western aircraft in the Arctic and warned that if any intruded into Soviet airspace fley would be destroyed. Page 3

### Nine die in Chad

Nine French paratroopers were killed in an explosion near the central Chad outpost of Oum, the worst casualties France has suffered since dispatching soldiers to help Chad President Hissène Habré halt a southward advance by Libyanbacked rebels. Page 3

### Cameroon coup fails

Forces loyal to President Paul Biya of Cameroon were back in control of strategic installations in the capital, Yaounde, after an aborted coupattempt. Page 3

### **Ulster killing**

Guinea's military leaders, who seized power in a bloodless coup last Thursday, have decided to restors full labour and press freedom, EUROPEAN Community should Conakry Radio said.

### Chinese border fight

battalion of Chinese troops crossed into its territory in an escalation of fighting along the Sino-Vietnamese border. Page 2

### Liberians pardoned

Liberian leader Samuel Doe par-doned 10 of 13 people sentenced to death last week for plotting to over-

### Colonels on trial

Four Spanish army colonels face trial before a court martial tomorrow, accused of plotting a coup designed to thwart a Socialist election victory in 1982.

### Oman barracks plan

The U.S. plans to build reinforced aircraft shelters and barracks in Oman as part of its expansion of military ground support in the Mid-

### Meningitis scare

Danish health authorities ordered the mass vaccination of 14,000 young people against meningitis, after more than 25 youths have been affected and one has died from the disease.

### Former senator dies

weekend, aged 59.

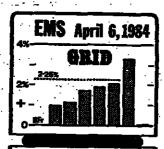
Former U.S. Senator Frank Church of Idaho, a leading Liberal during more than two decaders in the Senate, died of cancer over the

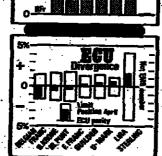
### BUSINESS

# Japan, US agree on trade quotas

ment on their long-running dispute over quotas on U.S. beef and citrus exports, under which the U.S. will be able almost to double its beef ex-Astronaut Dr George Nelson flew ports to Japan over the next four 200ft from the shuttle to the satel-

> ITALIAN lira recovered from a poor start in the European Monetary System last week, mainly as a ref





This depressed the D-Mark and relieved downward pressure on the eaker member currencies.

Tourist demand for the lira should increase with the onset of summer. Speculation of an immi-nent EMS realignment seems to have receded. The Belgian franc. was again the weakest currency but required little support from the Bel-gian central bank. Currencies, Page 38

Ulster magistrate's daughter Mary
Travers was shot dead and her fachange rates. The upper grid, based they were ambushed by gummen on tem, defines the cross rates from their way home from church in Bel-fast.

"The the cross rates from their which no currency (except the lim) may more more than 2% per cent. Guinea's military leaders, who can be lower that gives each currency's divergence from its "central rate" against the European Currency Unit (ECU), itself a basket of Eu-

consolidate its internal market and try to extend the benefits to the seven states of the European Free Chinese Dorder fight

Trade Area, said a report by the Euvernam claims that more than a ropean Research Associates. Page 4 **UNEMPLOYMENT** will continue to rise to 14% per cent in 1988 unless

the UK Government boosts growth to about 4 per cent, said Lloyds Bank's economic bulletin. Page 19 CHINA is to open up 14 coastal cities to overseas investment. It also plans to expand beer exports

from 1986 after opening a brewery to be built with a \$30m credit facili ty from 10 international banks. OCCIDENTAL PETROLEUM, international energy and natural re

sources group, said "great progress" had been made in plans for develop-ment of the world's biggest open cast coal mine in China. Page 4 TURNER BROADCASTING, U.S.

television and cable news group, and American Broadcasting Com-panies, could emerge as rivals for control of ESPN entertainment and sports network. Page 20 NEW ZEALAND trade unions will

launch snap strikes over the next two weeks against companies which reported record or large profits last year.

UK INDUSTRY: Profitability of new company investment will be significantly reduced in the long run by the UK budget's tax changes, said an analysis by UK broker W. Greenwell. Page 10

SECURITY PACIFIC, 10th largest U.S. bank, plans to take an initial 5 per cent stake in the London stockjobbers Charles Pulley & Co to complement its 29.9 per cent stake in | 20 per cent for large deals carried UK stockbroker Hoare Govett out by institutional investors in me-

# France pushes for united European voice within Nato

BY JOHN WYLES IN BRUSSELS

Plans are now well advanced for a meeting of foreign ministers of the seven-nation Western European Union (WEU) on May 23, which might lead to the development of a "European pillar" within the Nato alliance.

ing efforts to revive the WEU. Growing support for closer co-operation on security matters in Western Europe has been shown at preparatory meetings of officials. Those meetings followed a statedum circulated towards the end of

February. Speaking at a conference in Belgium followed the French Knokke, Belgium on EEC-U.S. relawith a supporting memorandum tions at the weekend, M Claude with a supporting memorandum that emphasised the importance of

That has also been a principal West German concern, but diplo-mats now say that Bonn's support for the French initiative has been crucially important in bringing it to

Of the other WEU members, Italy and Luxembourg are said to be cautiously in favour of exploring the idea, while Britain and the Nether-

That is the basic objective of the for security discussions might have French Government, which is lead-serious implications for the European Community's attempt to develop closer political co-operation.

It is no coincidence that the three

countries most opposed to security discussions within the EEC are the three member states that do not bement of sims in a French memoran- long to the WEU: Ireland, Denmark and Greece.

Cheysson, France's Foreign Minisensuring that no development of ter, emphasised that, although Eu-the WEU should weaken the Atlan-rope needed the U.S. for its defence, it could not be expected to share all American attitudes towards Eastern Europe.
M Leo Tindemans, the Belgian

> to ensure that a WEU revival would not lead to any decoupling from the U.S. or from the EEC The WEU exercise cannot be a substitute for a development to be

> carried out by the Ten, nor can it be conceived or undertaken outside Nato," he said.

Foreign Minister, promised to work

pean pillar is derived from the regional military superiority of the Soviet Union, M Tindemans added.

A revived WEU would have the added advantage for France of compensating for its absence from Nato's military structure. That ex-cludes it from the Euro-group, which tries to co-ordinate the policies and views of the European

French and Belgian ambitions for the WEU also cover closer co-opera-tion between defence industries in Europe. That is regarded as essential if the "two-way street" in arms purchases between Europe and the U.S. is to become a reality.

There is, however, no feeling in France that Western Europe could or should seek to take over from the U.S. responsibility for its conven-tional defence. We cannot afford the financial and human effort required," a French official said. Europe's defence must continue

Continued on Page 18

# U.S. interest rate rises cause mounting concern

BY MAX WILKINSON IN LONDON AND OUR FOREIGN STAFF

will this week put sharply increased fire."
pressure on the U.S. administration Jus

Fund's interim committee meeting in Washington on Thursday, the that their debt servicing bill will tate a new crisis for the world's debtor nations.

This renewed concern about the U.S. budget deficit and rising interest rates follows several weeks of upward pressure on rates in the U.S. credit markets, culminating on Friday with the announcement from the Federal Reserve Board that from today it would increase the U.S. discount rate from 8% per cent to 9 per cent.

This will be the first change in the discount rate since December 1982. The U.S. prime rate has already risen by 1 percentage point to 12 per cent within the last month.

THE WORLD'S financial leaders ministration was "playing with cial to the debt rescheduling pack-

Just before leaving Rio for the into cutt its budget deficits - to pre-term committee meeting. Sr Galvent a further rise in U.S. interest veas said that U.S. interest rates rates. were "causing more havor than the At the International Monetary entire oil crisis."

other industrialised powers will tell rise by \$700m over the next 12 • The world economy: A continued the U.S. of their fears that further rises in interest rates could precipi rises in interest rates could precipi prime rate rise is maintained and control of inflation is likely to linked to floating interest rates.

distinct change of approach by Brazil, which has sought throughout its 18-mouth long debt crisis to avoid giving offence to the U.S. First reactions earlier in the week to the two mum the U.S. would agree to. stage jump in the U.S. prime rate had been muted.

At the IMF conference, anxieties about the world's debt problems are likely to dominate most of the informal talks between ministers and central banks. In particular, they will be discuss-

Over the weekend, Sr Ernane ing what response they should Galveas, the Brazilian Finance make if Argentina's current talks Minister strongly attacked the re- with the Fund over an adjustment cent rise in the U.S. interest rates, programme should run into serious and warned that the Reagan Addifficulties. This programme is cru-

age which is needed for Argentina to avoid a default on its interest

main questions to be discussed at the formal and informal sessions next week in Washington will be:

through 1984. More than 70 per cent be agreed by the major countries, of Brazil's \$93bn foreign debt is despite generally improving world economic output The attack on the Reagan Admin- Aid to the Third World: Most istration's fiscal policies marks a countries will be hoping for final

agreement on the next three-year replenishment of the International Development Agency's fund for soft loans to provide S9bn, the maxi-

veloping countries will renew their call for a substantial addition to the SDR 17.5bn (\$18.6bn) which the Fund's members hold as currency reserves. However, the industrial nations are generally sceptical about whether a further issue of SDRs by the Fund is warranted.

Argentina urged to be realistic, Page 19; Focus shifts to money supply, Page 20

# London eases commission rules

BY JOHN MOORE, CITY CORRESPONDENT, IN LONDON

THE London Stock Exchange today brings into operation its initial plans for dismantling its fixed pans for commissions charged by British securities firms. It is the stock exchange's first step in a plan that will lead to the abandonment of fixed charges on securities trading within the next 18 months.

In today's moves, stock exchange firms are to be allowed to negotiate commission rates on buying and international dealing subsidiaries to enable them to compete with big securities firms from outside the

> A big cut in certain rates of commission charged on dealings in will be dealing in the international British government securities – gilt—market largely over the telephone edged stock - also takes effect today. The cuts might be more than drum and long-dated gilts.

The relaxation of the London ex- ket makers - who have indicated change's commission rules was prompted by an agreement with Britain's Department of Trade and Industry last summer that all commissions should be negotiable by December 1986. The stock exchange council has said that commission scales will be dismantled "simultaneously at a date not earlier than autumn 1985."

The international dealing companies allowed under the new rules selling overseas securities. As part nies allowed under the new rules of that change, the London ex-change is allowing its firms to form ability, be recognised members of the London exchange, but will be al-lowed to operate only in the role of a principal rather than as an agent. The stock exchange council has

ruled that, since those companies and mainly with professional investors, they will not be permitted to . London Stock Exchange fight for have a presence on the floor of the

Among the stockjobbers - or mar-

that they are forming an international dealership are Akroyd & Smithers, Smith Bros, and Bisgood, Bishop. Stockbroking firms that have indicated that they are forming international dealerships are Grieveson Grant; Cazenove; Rowe & Pitman; Kitcat & Aitken; Hoare, Govett; Williams de Broe Hill Chaplin. Through the establishment of an international dealership, stockbrokers will be able to act as a principal or market maker for the first time in London.

The move is already seen as a elude to the acceptance by the London exchange that the separate functions of stockjobbing and stockbroking may have to merge in the future if the British securities market is to be able to compete with overseas securities firms.

foreign husiness, Page 16; Lex; U.S. bank buys stockjobber, Page 18

# on trade arrears By Quentin Peel in London

Nigerian

accord

NIGERIA HAS reached broad

agreement with representatives of leading supplier companies on the terms and structure of rescheduling some \$3bn in arrears of uninsured trade payments, following exhaustive talks in London at the week-

The key to the deal is an agree-ment by the Nigerian Government to reconsider the question of paying some post-maturity interest owed on the arrears, some of which have been due for as long as two years.

In return, the leading creditors are expected to accept the Nigerian proposal to pay off its short-term trace debts with six-year promissory notes, provided some further amendments are made to the struc-

Further talks will take place this week - involving financial and legal advisers to both Nigeria and the creditors - to finalise the details of the Nigerian letter of offer. The document, originally scheduled for publication last Wednesday, will probably be delayed another week. Alhaji Abubakar Alhaji, the Ni-

gerian Permanent Secretary for Finance who has been leading the negotiations, expressed confidence in the outcome yesterday before leaving for Lagos. "I think we have got the agreement," he said.

The talks began on Friday be-tween a small group of British and Japanese creditors, and the Nigerian officials. Throughout Saturday, representatives of Unilever, the British group owed the largest individual amount, and Morgan Grenfell, the London merchant bank ad vising a group of more than 300 creditors, continued talks with the Ni-gerians and their financial advisers merchant bankers S. G. Warburg. The creditors have been seeking amendments to both the pricing

and structure of the Nigerian deal. On prices they wanted some payment of post-maturity interest on the arrears, and an improvement on the 1 per cent interest rate over Libor offered on the promissory On the question of structure, they

want stronger guarantees that the rescheduled payments would rank emphasis on tight financial policies with all other medium-term Nigeri-and control of inflation is likely to an debt, including cross-default clauses to other loans, and provision made for a "note-holders" agent" or trustee to represent the creditors' interests. The agreement on post maturity

interest does not commit the Nigerian Government to payment, but means that it will consider each case on its merits. No agreement by the notes.

# German unions to take strike decision today

BY RUPERT CORNWELL IN BONN

and print unions will decide today whether to push the country over the brink into its worst labour disruption for years, in support of their campaign for a 35-hour working week.

After the collapse on Friday of last ditch negotiations between em-ployers and the 2.5m-strong IG Metall engineering union, pessimism grew over the weekend that a seri-ous wave of strikes could no longer

The first serious shots have already been fired by IG Druck, the printing and paper industry union. Stoppages by its members caused Suddeutsche Zeitung of Munich, one of the largest German newspa-pers, to lose its entire local edition on Saturday. Some regional editions of the mass circulation Bild

Zeitung, were also affected. At a meeting in Stuttgart, leaders of IG Druck are expected to choose between either a national strike ballot for the industry, or increased action against preselected individu-

But the real pointer is likely to come from a special session, also today, of the executive of IG Metall, whose size, as well as its strategic position in key sectors of German

WEST GERMANY'S engineering industry, gives its attitude a deci-The union is torn between its own need not to lose face in a climbdown, and the evident lack of enthusiasm of a fair proportion of its membership for all out strike ac-

London fights to wir

investors, Page 16

Yesterday, however, IG Metall re-ceived welcome new backing from the DGB, the central union federation, for its battle to secure a five-

hour cut in the working week. Frau Ilse Brusis, a member of the DGB executive, declared that both the engineering and printing work-ers could rely "on the solidarity of every union." The federation also again attacked the centre-right coalition government in Bonn for siding unequivocally with the em-

ployers in the dispute. This backing has in turn only stiffened the support of the opposition Social Democrats (SPD) for the unions' demand. Herr Willy Brandt, the SPD chairman, told a weekend rally that mass unemployment (now standing at 2.4m in West Germany) "was just a chaotic way of shortening working hours."

But the Government's real worry now is that a serious outbreak of strikes, as opposed to the modest Continued on Page 18

### French expect rise in industrial investment

The investment predictions, showing rises particularly in the agrofood and intermediate goods second in current francs, compares tors, came as M Laurent Fabius, In- with the 15 per cent increase (6 per dustry Minister, prepared for a peace-making visit to the troubled Lorraine steel region tomorrow and steel unions drew up battle plans for a mass march on Paris on Fri-

The forecasts, made in a survey last month of business opinion by Insee, the official statistics institute, represent a sharp upward revision of the projections delivered dropped around 5 per cent in real was reached on the interest carried | during the previous survey in November.

THE FRENCH Government, which Although the survey does not faces a crucial week weathering the cover other important sectors such storm over its planned run-down of as services, agriculture and energy. the steel sector, could draw some the optimistic responses point to a comfort from forecasts indicating better-than-expected improvement an 11 per cent volume rise in overall in the investment climate despite domestic industrial investment this the recession still hitting key indus-

> The latest survey, predicting a 20 November survey.

Insee, showing the depth of investment cuts over the past three years, commented that even if the survey's projections were realised, business spending would still only be back to around its 1981 level. Last year, industrial investment

Continued on Page 18

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First Interstate Bank First Wisconsin National Bank of Milwaukee National Bank of Canada (Pacific) Limited Norwest Asia Limited Westpac Finance Asia Limited



### **OVERSEAS NEWS**

# China increases forces inside Vietnam

BY MARK SAKER IN PEKING

VIETNAM claims that more province had hit hack at a than a battalion of Chinese group of Vietnamese troops, troops have crossed into its territory in the escalating fighterman along the Chinese territory on Thursday, leaving the Chinese than the Chinese territory on Thursday, leaving ing along the Sino-Vietnamese border.

The Chinese force penetrated on Friday a kilometre into Vietnamese territory near Friendship Pass, on the border with China's Guangxi province, the Vietnamese embassy in Peking said. Chinese reinforcements had crossed the border on Saturday and ground fighting was continuing.

Triendsnip Pass, on the border of linesed and interest said. Sinhua said. Sinhua said. Chinese frontier guards hit back with their big guns, destroying many Vietnamese on Saturday and ground fighting and wounding a number of Vietnamese soldiers.

The alleged Chinese incursion into Vietnam, if true, is the first significant one since the fierce border war of 1979, in which an estimated 20,000 Chinese soldiers were killed. China has denied the Vietnamese allegation, but the latest despatch from Kinhua, the official Chinese news agency, said a detachment of Chinese frontier guards in Yunnan

Indian jute

strike ends as

port hopes rise

R2.6bu (£167m) because of

Officials of the four main dockworkers' unions leading the 23-day-old strike held extended weekend talks on Government pay demands but

were reported to be reaching a consensus for the 10 major

ports in question.
One top official was quoted as saying that he hoped to take an "acceptable formula"

to the Government.

to the Government.

In Punjab, where the Sikh sect is seeking greater religious and economic autonomy, grenade and gun attacks wounded eight Hindus, at religious meetings, keeping communal tension, high during Prime Minister Indira Gandhi's absence abroad.

Three people were wounded on Sunday in a grenade attack on a Hindu religious meeting, and five were wounded on Saturday night when gunmen fired on another religious

fired on another religious gathering. Harchand Singh Longowal,

a top Sikh leader, warned that

resentment against Govern-ment policies was growing. In a letter to Mr Prakash Sethi,

the Home Affairs Minister, he said: "There is mounting re-

sentment among Sikhs. . . I am finding it difficult to hold

am finding it diment to note them in check."

The continuing troubles in Punjab prompted Mrs Gandhi to curtail her Middle East peace mission on behalf of the 101-member mon-aligned movement, which she heads.

She was scheduled to discuss the Lebanon crisis, the Iran-Iran war and other

case the Lebanon Crisis, the Iran-Iraq war and other issues during a tour of Algeria, Libya, Egypt and Tunisia, but citing "murderous sprees" in Panjab side announced she would not visit

Egypt and Algeria and would

return temorrow.

Mrs Gandhi arrived in
Tripoli on Saturday and met
the Libyan leader Col
Muammer Gadaffi, who said be

considered the visit "a good initiative to bring in a new phase of relations between the two countries."

Emir of Bahrain

BAHRAIN—The Emir of Bahrain, Sheikh Isa Bin Sulman Al-Khalifa, who begins a four-day state visit

to Britain tomorrow, hopes that his talks with British leaders will contribuate to a settlement of the Iran-Iraq

hope that we shall be able to formulate new ideas which will contribute to the settle-

ment of the dispute between Iran nad Iraq," he said in

submitted by Reuters.

He said Bahrain had been

affected as much as any other Gulf state by the three-and-half years war, which "threatens peace and security in the whole region . . .

retards economic develop-ment in the area and invites

talks with Prime Minister Margaret Thatcher, also said: "We expect Britain and other

West European countries to

play a greater role in trying to resolve the Middle East

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foreign power rivalry."

sees UK role in Gulf peace

the strike.

territory on Thursday, leaving "23 dead and wounded" within

four hours.
Vietnamese artillery had continued to bombard Chinese positions at 20 places along the border on Thursday and Friday,

namese soldiers," the agency said. Both China and Vietnam have claimed intensifying artillery attacks by each other since last

Monday The Chinese have acknow-ledged that their bombardment of Vietnamese border positions is part of a strategy to put pressure on Hanoi over neigh-bouring Kampuchea.

Minister onds of Thalland left Bangkok yesterday on a six-nation tour that will include a meeting with President Ronald Reagan and discussions about the Vict-namese occupation of neighbouring Kampuches, Reuter reports from Bangkok.

His 20-day trip will also include meetings with leaders of Canada, Denmark, Yugo-slavia and West Germany, His

The official China Daily news-paper said the attacks were linked with the current counterattack by Thai troops against Vietnamese forces near the Thai-Kampuchea border. China has claimed that its shelling of Vietnamese positions

Africa. Meanwhile, Thai border roops were placed on full Khmer Rouge guerrillas are engaged in heavy fighting, General Arthit Kamiang-Ek.

trip to Switzerland will focus on discussions with Thai

mander, said.

He said the alert was ordered because of the lighting about six miles inside Kampuchen's western pro-

were purely in response to provocations, but "the constar-attacks waged by Thailand and China are believed to be the only way to deal with Hanol." China Daily said in a commentary published on Friday.

"The counter attacks are

Xinhora had said the Chinese stracks were in response to repeated stracks and incursions by Vietnamese troops since the beginning of the year. A number of Chinese civilians had been killed or wounded and extensive damage caused to buildings and agricultural areas, it said.

Many Western diplomats are sceptical about the Chinese claims. They believe China a leading backer of the auti-Vietnamese coalition in Kam-puches, is keen to put further essure on Vietnam during the on offensive near the

Rach April for the past three years China has reported attacking. Vietnamese border

# Fighting threatens Beirut plan

approved by a multifactional military commission.

By Our Foreign Staff
INDIA'S jute dispute ended
at the weekend and hopes
rose that the country's
longest-ever port strike may
be coming to a close. But,
on the political front, the
violence in the northern
state of Punjab continued.
The inte strike. also this The commission, grupping representatives of the Lebanese army. Christian militias, Druze and Moslem groups, endorsed a plan late Saturday for the The jute strike, also this sector's longest in history, ended on Saturday with nearly creation of buffer zones between combattants in the heart of ended on Saturday with Bearly 25,000 workers getting a minimum pay rise of R65 (about £4.20) per month. The strike, in the eastern state of West Bengal, had shut at least 55 mills for nearly six weeks. Indian Jute Mills Beirut and the strategic mountain ridges to the southeast. A special force of 2,000-3,000 internal security force (gen-darmes), retired army officers and new recruits would be com-Association officials, according to Reuter, said that the industry had lost more than

ring factions. There were no indications of when this policing force would be formed and of the deadline for a publack by army troops and militias from their present

zonse yary in width from 15 metres to 700 metres side of the lineof separation, depend-ing on the geographical location and intensity of fighting.

and intensity or regions.

A higher political-military committee in charge of stabilising a ceasefire and paving the way for political reforms still has to approve the disensagement proposals. Mostem opposition figures have complained that Amin Gemavel, the President smoor ngures have complained that Amin Gemayel, the President, is procreatinating on promised changes concerning the army command structure and political concessions.

The President is reaching missioned to separate the war-

FIGHTING broke out in and around Beirut yesterday damp- for the withdrawal of adversing prospects for implementa- saries to specific points away official word from Damascus or tion of a disengagement plan from battlefronts. The buffer the envisioned summit. official word from Damascus or State-run Damascus radio gave notice in a commentary

that Syria would not preoccupy itself with finding miracles for Observers here noted that the Syrian regime was not ready to get too deeply involved in the Lebanese quagmire in order to avoid the embarrassment of failure and because it needed domestic worries and power

the army command structure and political concessions.

The President is seeking Israelis, Israelis planes Saturday raided a suspected guerrillas structure army and Druze fighters in the army and Druze fighters in the of Beiruf. No casualities were mountain town of Song all Gharh. He is hoping to meet to the former guerrilla hase was prointed. Finance Minister in September.

### Lalonde may seek top OECD post

By Bernard Simon to Toronto MR MARC LALONDE, Canada's Finance Muister, is consider-ing approaches from several OECD member-countries have

April 9, 1984

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WOOD GUNDY

# International S.A

Condensed **Balance Sheet** as per December 31, 1983

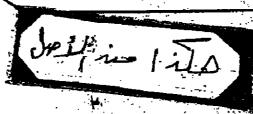
WestLB International S.A. 32-34, boulevard Grande-Duchesse Charlotte P.O. Box 420 L-2014 Luxembourg Telephone: 447411

Subsidiary of Düsseldorf/Münster

Westdeutsche Landesbank

| ASSETS      | <u> Tangan dan perengahan dan perunta</u> | intraffions of DM | previous yea  |
|-------------|---|-------------------|---------------|
| Amounts     | due from benks                            | 3,581.5           | 3.728.5       |
|             | advances to customers                     | 6.611.1           | 6.122.6       |
| Securities  |   | 391.7             | 384.8         |
| Other ass   | ets.                                      | 337.9             | 313.8         |
| 7-14        |   | 10.922.2          | 10.549.7      |
| LIABILITIES |   | ic milions of DM. | pravicus year |
| Amounts     | due to banks                              | 9,436.1           | 9,430,9       |
|             | eposits and other account                 | s 563.6           | 346.3         |
| Other liab  |   | 275.6             | 237.A         |
| Share car   |   | 125.5             | 125.4         |
| Reserves    |   | 199.0             | 186.9         |
| Provision   |   | 309.7             | 210.4         |
| Profit -    |   | 12.7              | 12.4          |
|             | en beginneren er en beginneren.           | 10.922.2          | 10.549.7      |

a seed bee the profit and lose a



# President back in control

FORCES loyal to President Ahmadou Ahidjo, himself a Christian, succeeded ex-Presi-Paul Biya of Cameroon were northern Moslem and head of dent Ahidjo as head of state yesterday back in control of state for 22 years since when the latter resigned sudstrategic installations in the capital, Yaounde, following two days of sporadic fighting with members of the presidential guard attempting to overthrow the Government state for 22 years since independence. Reports in Paris identified the rebels as a group of Mosiem northerners in the President's Republican Guard, possibly no the Government

A communique issued yesterday by the Armed Forces Minister called on any remaining rebels to surrender to the including the radio station, accused his present the carry hours of Friday morn. Last year, Principles before midden and the including the radio station, accused his present the carry ministrations.

7

more than 100 strong

Relations between the two became increasingly difficult as President Biya moved to rein-force his own position, and dismissed a number of key They began their action in northern Moslems who had been

resistance.

The failure of the attempted coup was sealed on Saturday night when President Blya, whose whereal outs had been unknown, came on the radio in an emotional broadcast to announce that "complete victory" had been gained over the rebel soldiers.

However, the coup attempt has seriously dented the reputation of the Cameroon as one of the most economically viable and politically stable states in Africa.

It underlines the continuing tension between the largely Moslem north and Christian south of the country, since the resignation in 1982 of President

Musters, the airport and the of France, of plotting to return to power. At a trial in February, the former relieved to death in absentia, along with two former aides. In Paris yesterday, M Felix from Douala, the country's Tonye M'Bog, the Foreign Minister, kinked the coup attempt to the trial, blaming the action on "regionalists and separatists."

President Biya said in his broadcast that "regular units of our national army—who remained faithful to the constitution—fought methodically and with determination, and achieved complete victory by late Saturday morning."

He said the objective of the attempted to death in absentia, along with two former aides. In Paris yesterday, M Felix from Douala, the country's Tonye M'Bog, the Foreign Minister, kinked the coup attempt to the trial, blaming the action on "regionalists and separatists."

President Biya said in his broadcast that "regular units of our national army—who remained faithful to the constitution—fought methodically and with determination, and achieved complete victory by late of the said the objective of the action was not mutiny, but "to achieve political power."

He said the objective of the former colonial power of the largest part of the state, were never entirely easy, unlike those with President Biya, a technocrat.

# Zimbabwe SE statement likely

BY TONY HAWKINS IN HARARE

A STATEMENT on the future suspension of such trading in of the Zimbabwe Stock mid-March.

Exchange may be made this There are only two broking such assets abroad and even sweeping new exchange control of them is expected to close.

All Exchange in the seems unities that the Government would want to sell such assets abroad and even less likely that there would be any willing buyers.

proposal whereby the Zimbabwe Government will acquire the pool of blocked foreign securi-ties held by nominee companies in Zimbabwe on behalf of both cial institutions to keep the

residents and former residents. The proposed share acquisi-tion is being challenged in the courts both here and in South Africa, but the immediate concern is whether the Zimbabwe Stock Exchange can survive without the external pool.

Brokers say that some 90 per cent of their turnover was in external securities prior to the external securities.

veeping new exchange control sequiations.

The new measures included a least two broker firms to make least two brokers. a market. If one closes, the Government will have to allow corporate membership by finanmarket alive,

The market is also seeking a ruling from the Government on the future of so-called dual register stocks. These are shares in Zimbabwe companies such as Falcon Mines, Wankle Colliery and MTD Mangula quoted on foreign stock markets and therefore treated as

Meanwhile, the New York

Times reported yesterday that the Reagan Administration was drawing up "routine" contin-

gency plans for the possible use of U.S. combat troops in Central America if its current strategy

for defeating leftist forces had not worked by 1985 or 1986.

Hugh O'Shauguessy adds: Britain would continue to press

It seems unlikely that the

Government purchases them, the expectation is that Morgan Grenfell will handle the transaction.

Meanwhile, Dr Bernard Chidzero, Zimbabwe's Finance Minister, is to attend the interim meeting of the International Monetary Fund board of governors in Washington this week, amid speculation that Zimbabwe will have substantially to re-negotiate its existing standby agreement.

### Congress outcry grows at mining of Nicaragua ports

ANOTHER Congressional outcry over President Ronald well within the 200-mile terriReagan's Central American torial limit claimed by policies was brewing in Washington as further details mile limit that the U.S. respects, Nicaraguan ports were revealed

Members of Congress said the latest disclosures would increase pressure on the Administration to stop the mining.

It would also reinforce efforts in the House of Representatives to block Mr Reagan's request for another \$21m (£15m) in aid to the U.S.-backed "contra" Nicaraguan rebels, which was approved by the Senate last week, they added.

U.S. officials confirmed that Americans working for the Central Intelligence Agency had been supervising the mining in recent months from a ship off mines were being placed by an elite group of Latin American commandos, using small, high-speed boats. Nicaragua's Pacific coast.

### French soldiers to stay in Chad despite deaths The intelligence ship, while By Our Paris Staff

THE FRENCH Government is keeping firmly to its military peace-keeping commitment in Chad in spite of the death of nine soldiers and wounding of six others in a land-mine inci-dent announced at the week-

The deaths, qualified by M. Charles Hernu, the Defence Minister, as an "accident" rather than as a result of enemy action, represent by far France's biggest setback since it sent 3,000 troops into the central African country to defend the government against Libyan-backed rebels last August.
The Defence Ministry said the

the Reagan Administration to halt the mining of Nicaragua ports, Mr Ray Whitney, Minister of State at the Foreign and Commonwealth Office, said in a deaths were "probably" caused by explosion of a mine. A repradio interview yesterday.

His undertaking came after
he was pressed by Mr Denis
Healey, the Opposition foreign. resentative of Chad's opposi tion movement Gunt said in Brussels that the deaths oc-curred when French forces stumbled on a mine field, and affairs spokesman, to do more to halt the mining which has claimed that Chad government troops were also killed and wounded. jeopardised the lives of British crews in Nicaraguan waters.

> UK set to send envoy to Angolan rebels

Britain is willing to send an envoy to Angola to meet anti-

government rebels in return for the release of 16 British workers

they are holding, Mr Malcolm Rifkind, junior foreign minister,

said in London yesterday, Reuter reports.
In Lisbon a spokesman for the National Union for the Total Independence of Angola (Unita) said his organisation was await-ing the arrival of the British official. Unita is to release a group of Portuguese hostages in time for their return to Lisbon on Thursday, the spokesman said, and other foreigners, apart from the Britons, would be freed soon.

Plea for Africa

France and its 13 African

partners in the franc zone eco-nomic group said Saturday "everything possible must be done" so that Africa does not become "the forgotten continent in development," AP reports from Paris. The statement was

issued after a two-day meeting of finance ministers from France

and sub-Sahara African nations.

The Nigerian army has rounded up at least 6,000 people suspec-

ted of being criminals, illegal

aliens or religious fanatics in

Lagos, a military police officer told national television last

A sabotage attack by anti-

Markist guerrillas knocked out

power lines from neighbouring South Africa and left Mozam-blque's capital with reduced

AP reports from

6,000 held in Lagos

night, Reuter reports.

Maputo power cut

# Latin America debt plea

BY HUGH O'SHAUGHINESSY

for the renegotiation of Latin America's \$350bn (£240bn) foreign debt.

In a resolution adopted by a large majority on Friday night at the Commission's 20th congress in Lima, ECLA said that the present debt crisis was principally a consequence of factors outside the control of debtor countries, including high

THE UNITED NATIONS interest rates, a cut in the inflowed commission for Latin flow of foreign funds and a drop America (ECLA), the region's in international trade. in international trade.

The resolution was objected

### The Scottish Metropolitan **Property PLC**

### Interim Statement

|                                      | (unaudited) | (unaudited |
|--------------------------------------|-------------|------------|
| Net Revenue from                     | £3,471,571  | £3,263,26  |
| Properties Other Income              | 515,873     | 443,26     |
| Interest Paid and<br>Admin. Expenses | 688,618     | 632,08     |
| Group Profits before<br>Taxation     | 3,288,529   |            |
| Available for Dividend               | 1,823,388   | 1,578,78   |
| Available to bividence               | 1,552,104   | 1,454,90   |
| Dividend-Interim Carried to Reserves | 271,284     | 123,88     |

The Directors have declared an increased interim dividend of 1.6p per share (1983—1.5p per share) on an issued share capital of £19,401,296 (1983—£19,398,697) and anticipate that they will be able to recommend an increase in the rate of final dividend for the year ending 15th August 1984.

### FORMER Vice - President Walter Mondale reversed his defeat in last week's nonbinding Wisconsin primary by Winning a clear majority in the state's Democratic cancuses at the weekend.

Jackson.

majority in

Wisconsin

By Reginald Dale, U.S. Editor, in Philadelphia

cent of the caucus vote. against 29 per cent for his chief rival, Senator Gary Hart of Colorado, and 15 per

cent for the third remaining candidate, the Rev Jessie

In Tuesday's open " beauty

contest " primary, in which about 20 times the number of

people voted. Mr Hart beat Mr Mondale by 46 to 42 per

cent. Mr Hart attributed yes-terday's reversal to the fact

that only generally pro-Mondale party leaders and activists had attended the

caucuses

ing rebels to surrender to the including the radio station, accused his predecessor, now army was reported to be quarters, the airport and the of France, of plotting to return resistance.

The failure of the surrender to the including the radio station, accused his predecessor, now telecommunications head living in exile in the south of France, of plotting to return to power Af a radial to power Af a radi

The vote translated into 46 Mondale delegates to July's nominating convention in San Francisco and 25 for Senator Hart, according to unofficial estimates. It was not clear yesterday whether the com-plex voting rules would allow Mr Jackson any delegates.

Nevertheless, the results gave a further boost to Mr Mondale in advance of Tuesday's important primary in Pennsylvania, where the latest Washington Post/ABC News "tracking poll" showed the two men neck and neck

with 41 per cent each.

With the Wisconsin delegates included, the latest unofficial count by ABC News gave Mr Mondale 964 of the 1,967 Convention delegates needed to win the Presidential needed to win the Presidential nomination against 550 for Mr Hart, 145 for Mr Jackson and 465 uncommitted.

# Forces loyal to Cameroon Mondale has W. German chemical sales boom

BY JONATHAN CARR IN HANOVER

in the first quarter, with foreign labour. sales even more bouyant than those at home.

Mr Mondale won 54 per

more jobs expected in 1984.

The industry's association, the VCI, said that turnover was up by 15 per cent in nominal terms in the first quarter, with forcion of the said to bring a boom in innovation of the said that turnover was up by 15 per cent in nominal terms in the first quarter, with forcion of the said that turnover was up by 15 per cent in nominal terms in the first quarter, with forcion of the said that turnover was up the said to bring a boom in innovation with the german chemicals sector would fully share.

The VCI's optimistic tone is the said turnover was up the said to bring a boom in innovation with the german chemicals sector would fully share.

The VCI's optimistic tone is the said turnover was up to bring a boom in innovation with the german chemicals sector would fully share.

demand at home is that dealers, Although the January-March expecting a marked increase in results are being compared with a particularly weak first quarter of 1983, the likelihood is that turnover for this year as a stocks.

The number of compared with chemical producer prices after that last year alone, the chemical producer prices after the prices after the prices

One reason for the rising sector might be becoming less Hanover's Industrial Fair. at innovative than its foreign which nearly 7,000 companies competitors, the VCI stressed are exhibiting and which closes

THE RECOVERY in the West whole will rise by over 10 per German chemical industry is cent to more than DM 140bn gathering pace with record (£11.6bn).

According to the VCI. chemithe the same period on investments. Cals turnover last year rose by The next two decades prograthering pace with record (£11.6bn).

# Soviet warning on U.S. Arctic flights

MOSCOW - Soviet fighter pilots firepower of the Air Defence Forcomplained yesterday of frequent spy flights by Western aircraft in newspaper.

The U.S. and South Korea have fighters and even ship-based helistrenuously denied Soviet charges copters, they added that the airliner was on an espio. The report said the missions spy flights by Western aircraft in the Arctic and warned that if any intruded into Soviet airspace they

would be destroyed. Pilots at an unidentified northern airbase told the newspaper Trud that Nato jet reconnaissance aircraft and even belicopters repeated-

"If the enemy should think of vio-lating the border of the U.S.R. he

which all 269 people on board were cilied. knew "they would not go unpun-The general said the jumbo jet ished" if they crossed it. killed.

by patrolled on the very edge of the bad been sent in on a spying. The pilots said the U.S. sent SR-were near Soviet missile and bases on the Kus-mission which had been a major 71 high-altitude spy aircraft and bases on the Kole Peninsula military-political provocation and RS-135 reconnaissance aircraft. The Trud report was published. showed that Russian Air Defence

Soviet air border because they meet.

from bases in Britain to the Soviet lating the border of the U.S.S.R. he will immediately be faced with the had to be on constant alert. Arctic coast. Other patrols were carday today.

Although the area was not iden-

tified, it appeared likely the patrols were near Soviet missile and naval The Trud report was published to mark Soviet Air Defence Forces

Reuter, AP

### Frankfurt runway protest fears

FRANKFURT — Frankfurt hard surport's controversial third runway is due to open on Thursday, but protesters are not giving up efforts to prevent the 24-mile strip going into operation.

The fight to stop the runway began as soon as it was protection.

Groups of protesters against Runway 18-West, as it is named, have called for a series peaceful demonstrations lasting throughout the week.

Herr Walter Waisz, one of

These turned into running accept it. The concrete is there Reuter

made preparations," a police began as soon as it was proposed in the 1960s to cope with spokesman declined to give expected air traffic growth at details of security but said: the airport, the busiest in Everything necessary has been Europe after London's Heath-Opponents say the runway

Police however, fear the pro-tests will lead to a repeat of the group, said: "The runway is a increase in noise in surround-1981 and 1982 demonstrations. fact. It's there. But we won't ing villages.

### Grenada parties unite to fight election

By Our Foreign Staff

THE MIDDLE-of-the-road Grevada National Party (GNP) is to fight the forthcoming elec-tions in Grenada jointly with the U.S.-supported Grenada Democratic Movement and the National Democratic Party.

This was announced in Barbados at the weekend by Mr Herbert Blaize, 66, leader of the GNP and a former Premier of Grenada. Mr Blaize said he expected the elections to take place in the last four months of this year.



The far-sighted Hortesaue-Smythes may have heard that American Airlines First Class and Business Class across the Atlantic is rather popular these days.

It could be that the British rather like our International Flaaship Service non-stop to Dallas/Fort Worth.

It's true that unlike other airlines, our cabin staff are trained to the exacting standards of a well-known luxury hotel group. And unlike other airlines, we understand that the businessman

likes to keep up-to-date. So we provide an in-flight update of investment news by a leading financial analyst. And a news magazine prepared by CBS. On video, of course.

All of this may not be surprising when you realise that unlike other airlines, we flew the competition, noted their good points and only then created a service that bettered them.

Now, the Flortescue-Smythes may be somewhat premature in preparing for young Jeremy's business trips. But they may like to know that when he's ready he can reserve the seat of his choice up to 11 months in advance via our computer reservations system and we'll hold it for him until 30 minutes before the flight leaves.

For seat availability and any other information, contact your



### **Davignon** warns on technology transfer

By John Wyles in Brussels

THE European Community could be heading for "a major fight" with the U.S. over the transfer of high technology. Viscount Etienne Davignon, the European Commissioner for Leducter and at the washand

Concern is growing in Brussels over the strength of demands from the Pentagon and the U.S. Congress for tighter control on the transfer of U.S. technology with a potential military application.

M Davignon said that if the pentagon was left to make the decisions, "we are going into a major fight with the U.S.... which wil make chickenfeed of our agriculture dispute."

Speaking at a conference on Speaking at a conference on EEC-U.S. relations at Knokk, Belgium, M Davignon stressed the implications of any tighten-ing of U.S. controls for existing co-operative arrangements between Eupropean and Ameri-

# Japan reaches agreement on U.S. beef and citrus quotas

on U.S. beef and citrus exports, over the issue, which me and of under which the U.S. will be said had become symbolic of Japanese intransigence on trade

Special Trade Representative, followed an apparent breakdown in talks on Friday.

The new agreement, reached on Saturday in talks between Mr Shinjiro Yamamura, the Japanese Agriculture Minister, and Mr William Brock, the U.S. the Reagan Administration and for Mr Brock. The Administra-tion may be hoping that it will

by 6,900 tonnes a year over the next four years, raising the quota from the level of 30,800 tonnes a year which it reached in the last year of the expired agreement to 58,400 tonn is estimated that this could raise

New York: U.S. import restrictions on Japanese cars since been improved, and consumer record in 1983 of 1.897m units, and Ward's expects another restraints also provided research study by Ward's, the influential U.S. publishing group improved and wards expects another record ways, according to a research study by Ward's, the influential U.S. publishing group improved provided and ward's expects another record in 1983 of 1.897m units, and Ward's expects another record ways, according to a incentive to the Japanese achieved a new sales record in 1983 of 1.897m units, and ward's expects another record ways, according to a incentive to the Japanese achieved a new sales record in 1983 of 1.897m units, and ward's expects another record ways, according to a incentive to the Japanese achieved a new sales record in 1983 of 1.897m units, and ward's expects another respects to the Japanese achieved a new sales record in 1983 of 1.897m units, and ward's expects another respects to the Japanese achieved a new sales record in 1983 of 1.897m units, and ward's expects another respects another respects ways, according to a incentive to the Japanese achieved a new sales record in 1983 of 1.897m units, and ward's expects another respects ways, according to a incentive to the Japanese achieved a new sales record in 1983 of 1.897m units, and ward's expects another respects ways, according to a incentive to the Japanese achieved a new sales record in 1983 of 1.897m units, and ward's expects another record in 1983 of 1.897m units, and ward's expects another record in 1983 of 1.897m units, and ward's expects another record in 1983 of 1.897m units, and ward's expects another record in 1983 of 1.897m units, and ward's expects another record in 1983 of 1.897m units, and ward's expects another record in 1983 of 1.897m units, and ward's expects another record in 1983 of 1.897m units, and ward's expects another record in 1983 of 1.897m units, and ward's expects another record in 1983 of 1.897m units, and ward's expects another record in 198

JAPAN AND the U.S. have reached agreement on their long-runing dispute over quotas on U.S. beef and citrus exports, under which the U.S. will be able almost to double its beef almost to double its beef four years of Sturday in talks between on Saturday in talks between status of mounting U.S. pressure of mounting U.S. pressure of mounting U.S. provide officials with some evidence to counter growing from around \$500m to \$800m annually.

The value of U.S. beef exports from around \$500m to \$800m annually.

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The quota on oranges, which had been \$2,000 tonnes a year over the four years of the four years of the four years of the signs of mounting U.S. pressure of the signs of mounted that he was return amounced that he was return annually.

The quota on oranges, which he was return annually.

The quota on oranges, which he does \$2,000 tonnes a year over the four years of the signs of the report.

The new agreement, reached agreement annually.

The orange of U.S. beef exports from around \$500m to \$800m to \$800 Terry Dodsworth adds from ducing an artificial shortage the Despite the quota system the New York: U.S. import restriction image of Japanese products has Japanese achieved a new sales

Hungarian

drive in UK

MORE- THAN 40 Hungarian companies are launching a com-mercial assault on the British

market in a week-long promo-tion drive opening today in Lon-don and Manchester, David

Buchan writes. Hungary is field-ing the strongest delegation to come to the UK for 12 years, headed by Mr Peter Veress, the

headed by Mr Peter Veron, the Foreign Trade Minister.
Both Hungary and Britain are hoping to capitalise on their newlyimproved political relations, following the February visit by Mrs Margaret Thatcher, the Prime Minister to Budapest. UK exports to Hungary rose by 12 new count to 502m last war

18 per cent to £92m last year,

and Hungarian exports to the UK by 22 per cent to 254m.
Mr Veress will see several UK ministers, as well as Mrs Thatcher, After the death of Mr Yuri Andropov, the former Soviet leader, Hungary asked for a "pause for reflection" before it stanted negotiations

before it started negotiations for a trade agreement with the

European Community, apparently to test the mood in Moscow UK officials now expect Mr Veress to raise the issue of British support for Hungary in

Agriculture is of key importance to Hungary, Comecon's most successful food producer.

export

### **EEC** tries to boost ties with Efta nations

market and then ity to extend the benefits to the seven states of the European Pree Trade Area: (Effa) in a way which provides mutual benefit for both sides, according to a new study published today.

REC and Edge Foreign Ministers are to meet in Lexembours this week in fre-Luxenteens this week to by to start a process of strengthening the free trade acrosments which were signed tenyens up by the BEC and the individual states of Effa-Austria, Switzerland, Sweden, Nerway Sceland, Ebriand and Perlugal.

case for consolidating West European free trade is over-whelming. "It would enable Western Europe to remain a competitive world industrial and trading power on a par-with the U.S. and Japan," it

The last trade barriers between the two sides, relating to forest products, were removed at the beginning of the year creating an industrial free trade zone of 570m people and the Foreign Ministers are faced with the task of defining fature mathade of co-ordination.

There are two main but overlapping pathlens. Elect, the way in which the EEC completes its own customs union, and second the way in which co-operation between the two groups is adapted to the requirements of the new industrial revolution.

The strengthening of the EEC's internal market is seen by Efts countries as nee-promy first countries as nee-projectionist, and getting raund this would involve the application of the putsual market to Effa, But, the report concedes there is little immediate chance of this approach being adopted as only West Germany is in favour.

The European Community and Efta in the 1980s, a multi client report by European Research Associates: Brussels 1984

### U.S. wine Bill **'a blunderbuss'**

THE U.S. Wine Equity Bill, which is designed to open foreign markets to U.S. wine producers, has been described as "the legislative equivalent of shooting yourself in the foot" by Mr William Brock, the U.S. Trade Representative. The Bill is "worse than awful" and a "blunderbuss" approach to selving the export problems of the U.S. wine industry, he said, Louise Kehoe writes from Francisco.

# Fall in Soviet energy earnings could limit spending on imports

BY DAVID BUCHAN, EAST EUROPE CORRESPONDENT

wonder how much leeway the country will have to increase its imports this year.

Some 30 leading British companies, led by Lord Ezra, open a week of lectures today setting out the technical merits of their

NEWS OF trouble in the have kept output for the past six obvious for some time in the soviet Union's largest hard months below target at 1983 West, the admission suggests that currency earning sector, oil and levels.

West, the admission suggests that that Soviet policy-makers may be levels.

The solution of the past six obvious for some time in the ters of its hard currency earnings, and oil alone well over that Soviet policy-makers may followed by the source of the solution of the past six obvious for some time in the ters of its hard currency earnings, and oil alone well over that the solution of the past six obvious for some time in the ters of its hard currency earnings, and oil alone well over that the solution of the past six obvious for some time in the ters of its hard currency earnings, and oil alone well over that the solution of the past six obvious for some time in the ters of its hard currency earnings.

SOVIET OIL USE

out the technical merits of their wares to potential Soviet buyers in Moscow.

A senior U.S. Commerce department official said later that President Ronald Reagan had intervened three weeks ago in the disagreement between the Defence Department on the issue, ruling that the Pentagon should not take the lead.

Out the technical merits of their wares to potential Soviet buyers in Moscow.

The problems in the energy prices, as Wharton Ronometric buyers in Moscow.

At the same time, a senior official said later that President Ronald Reagan had intervened three weeks ago in the disagreement between the Defence Department and the Commerce Department on the issue, ruling that the Pentagon should not take the lead.

Out the technical merits of their wares to potential Soviet buyers in Moscow.

The problems in the energy prices, as Wharton Roonometric buyers in the energy prices, as Wharton Roonometric buyers in the sector ware revealed in Pravda, the Communist Party newspaper, and capped earlier sporadic Soviet Press reports of stagnating Soviet oil production of stagnating oil traders report a drop this more gas through the new trans-Siberian pipeline to domestic oil output and gas early part demand would be serious averaged 1.5m barrels a day to weather and transport probability of the soviet Union. Energy prices, as Wharton Roonometric built up.

Source: Petroleum Economist of their wares to potential Soviet of the source probability of the production does not in the currency revenue forecasts.

Certainly in the longer term, automatically entail built up.

Second, a leveling off in oil likely to see a fall built up.

Second, a leveling off in oil likely to see a fall built up.

Certainly in the longer term, oil traders report a drop this domestic oil output and gas early of the soviet Union. Provided the production does not, in the currency revenue forecasts.

Certainly in the longer term.

Source: Petroleum Economist

Second, a leveling off in oil likely to see a fall built up.

Second, a leveling of in oil likely t

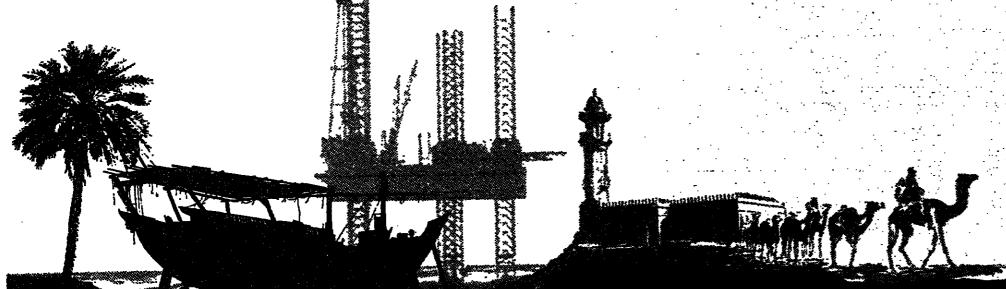
ability to import.

But, for this year at least, the Soviet Union is not likely seriously to feel the pinch, for several reasons. First, the Soviet Union has very ample gold and hard currency reserves

volume of its energy oil exports to the West by between 15 and 18 per cent to offset an almost comparable percentage decline in energy prices, according to Wharton Econometrics.

But the Soviet Union has in-creasing amounts of Middle Eastern oil at its disposal for re-export to the West. In the first nine months of 1983, the

wharton Econometrics.
A third factor is that 1984 is likely to see a fall-off in the higgest items in the Soviet import bill. The new Urengoy pipeline is now completed and thus requires no more Western components.



# TO Centa Wice Cai othes

Gulf Air's Golden Falcon TriStars fly twice daily to the Gulf. Fly one and you'll enjoy the warmest possible welcome, complimentary refreshments and entertainments, choice of International and Middle Eastern cuisine: honoured by La Chaine des Rôtisseurs.

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Executive Travel Magazine October 1983.



# U.S. company in Chinese

COMPUTER JOINT VENTURE

HONG KONG—The Peking-controlled Ever Bright Industrial in Asia.

Company is to set up a joint Renter
venture with Burroughs of the
U.S. to make mini-computers.
Wang Gnangying, chairman of the entrepreneurial
Ever Bright said at the weekend. Ever Bright said at the weekend.

The two companies will produce the B-25 type mini-computer in a Hong Kong fac-tory and another plant in China will produce the B-20 type mini-

Wang said the joint venture has obtained authority from the Paris-based Co-ordinating Com-mittee for Multilateral Export Controls (Cocom) to sell the B-20 in China. Sales of the B-25 will limited to Hong Kong and

other non-Communist countries in Asia.

William Hall adds from New York: Occidental Petroleum, the entrepreneurial interna-tional energy and natural resources group headed by
the 85-year-old Dr Armand
Hammer, says that "great
progress" has been made
in finalising plans for the deveropment of the world's biggest

open cast coal mine in China. The U.S. company's statement follows months of speculation that the joint venture between the U.S. and China had run into serious financing problems and was likely to be abandoned.

### SHIPPING REPORT

### Rising demand for iron ore helps keep rates firm

DRY CARGO rates remained firm last week, with demand for larger size ships remaining a feature of the market as rising steel output centimed to raise lost to the shipping steel output centimed to raise lost to the shipping steel output centimed to raise lost to the shipping steel output centimed to raise lost to the shipping findustry. Last year, 2.97bn tonnes were carried against 3bn in 1982 and 3.49bn tonnes were carried aga

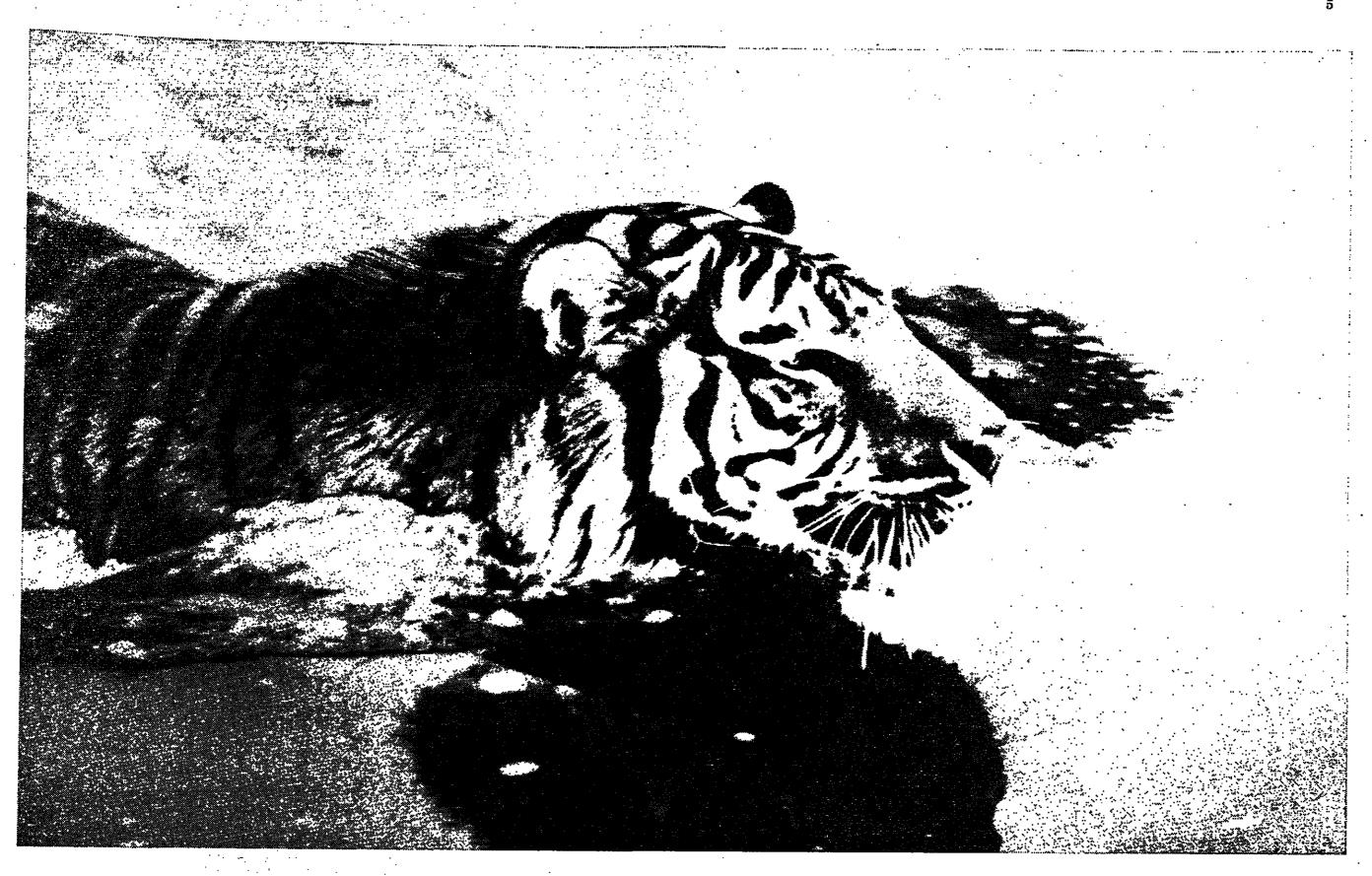
grain.
Forecasting a rise in world trade volume of more than 4 per cent this year after 2 per cent in 1983; Lambert Brothers Shipping said this would be a small but much needed imprevement for the shipping industry.

Atlantic was quiet last week, with the strength of the dollar and the favourable EEC grain crop dampening demand from Eurepe for U.S. grains.

But the rate from the U.S. Guif to continental Europe at \$10.50 a ton, though marginally down on the previous week, was still far better than seen earlier

# **WORLD ECONOMIC INDICATORS**

| ં . |              | (Ü.     | San)           |              |          |
|-----|--------------|---------|----------------|--------------|----------|
|     |              | jan 84  |                | Nov. '83     | Jan. 783 |
| i . | US.          | 6,295   | 6,289          |              | 9,490    |
|     | W. Germany   | 37,134  | 37,313         |              | 40,648   |
|     | japan<br>UK  |         | 20,344         | - '20,161' - | 19,497   |
|     |              | 8,529   | <b>8,778</b> , | 8,775        | 9,795    |
|     | <b>Italy</b> | 17,913  | 18,525         |              | .13,800  |
|     | Netherlands  | 8,438   | \$7M2          | 8,707        | 9,430    |
|     | Belgkum      | 3,632   | 3716           | 1,843        | 3,219    |
| *   |              | Dec. 23 | Nev. 33        | . 12€ .      | Dec. 82  |
|     | France       | T8.057  |                | 18.702       |          |



# ACAT'S EYE VIEW OF THE NORTH SEA.

We first dipped our toe in the North Sea nineteen years ago with the drilling of our first exploration well.

We then took the plunge and began the development of North Sea oil and gas.

A programme of Esso investment started which to date has reached £3,500 million.

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1984 sees Esso continuing its massive investment programmes. This year alone Esso capital and operating expenditure will exceed £1,000 million, 85% of which will be spent in Britain, supporting around 40,000 jobs . . .

Our exploration and appraisal drilling will be almost twice the record level achieved in 1983; and we will drill a wildcat well West of Shetland in the deepest water ever drilled in the UK sector . . .

New pipelines will be constructed; marketing terminals will be modernised and automated; new refinery technology will be introduced meeting the changing requirements of our customers and preparing for the reduction of lead in petrol; and more new flagship stations will be added to our retail network—the finest service station chain in Britain . . .

All this is happening in 1984.

But what of the future?

Huge investments are required to help maintain self-sufficiency in oil for Britain and meet our customers' needs up to the year 2000 and beyond.

By the end of 1990 alone Esso expects to invest a further £4,500 million in Britain.

# Guided warheads of genetics

BY RAYMOND SNODDY RECENTLY IN SAN FRANCISCO

Dr Fildes, president and chief operating officer of Cetus, says the California company is al-ready using genetic engineering tools and the killing power of natural toxins such as ricin to kill specife cancer cells in the

The company, one of the major U.S. genetic engineering groups, believes it is well advanced in the international race to produce effective immu-notoxins which can kill diseased cells without harming other

Immunotoxins are a combination of two molecues—a mono-clonal antibody tied to a toxin

"It's essentially a guided warhead. The monoclonal anti-body finds the target you want,"

Cetus hopes to get U.S. Food and Drug Administration approval later this year to begin human clinical trials on an immunotoxin which kills breast

You can take an immunotoxin made up of a monoclonal anti-body specific for breast cancer coupled to a toxin molecule, put the immunotoxin in the presence of the breast cancer cells and it will kill at extremely quantities," Dr Fildes

Cetus scientists have surveyed more than 20,000 mono-clonals to find ones that are specific to major forms of cancer such as lung, colon and prostate as well as breast.

Cetus says it has developed mice. genetic engineering methods of

"Once you have the ability to make this in a bug you can play all sorts of games with it and it gives you greater flexi-bility to develop the most effective molecule for doing the treatment," says Dr Fildes, who comes originally from Ealing in West London. Cetus has selected the cancer market as one of its major strategic goals and has launched a three-pronged attack on the disease.

Genetically engineered beta interferon, a potential anti-cancer drug, is now undergoing human clinical trials. The other prong of the attack, interleukin —2 (IL—2), was approved at the end of last month by the FDA for human clinical trials to see if it is an effective treat-ment for cancer and Acquired Immune Deficiency Syndrome

(AIDS). (AIDS).
IL-2 is a protein that exists naturally in small quantities in the human body and which helps to regulate the immune system which defends the body against infectious diseases and

"We have shown in laboratory experiments they work, allow large enough quantities of IL-2 to be made to run extends meaned to see Genetic engineering methods tensive trials needed to see whether it can strengthen the immune systems of AIDS or cancer sufferers. Trials have already begun at the San Francisco General Hospital on AIDS, the often fatal disease of the

"Our focus is to find a way

TOXINS, Dr Robert Fildes explains with relish, are exquisite in the way they kill—a single molecule can kill a cell.

Dr Fildes, president and chief

panies. he believes, are doing the linking by chemical means one of these or a combination, which may not be so stable.

"Once you have the ability to make this in a bug you can be several years before to make this in a bug you can be several years before

Cetus knows whether it has chosen the right weapons against cancer. Completing clinical trials and putting together a formal claim for a product licence from the FDA will alone take more than three

commercial point of view is an extremely attractive one. It is currently worth \$300m a year in the U.S. It is growing at a fast rate and worldwide it is in excess of \$1bn, Dr Fildes

Cetus is concentrating 70 per cent of its research effort— \$30m—a year on human health

Apart from cancer and diseases of the immune system the company is also working on treatments for serious viral infections. Together Dr Fildes believes the total market involved could be worth as much as \$20n with the most conservative estimates suggesting at least \$500m. least \$500m

But for most genetic engineering companies which like Cetus are specialising in human health care the problem is how to rervive long enough to see whether the promise of the promise of the research can be fulfilled in useful products.

Although the "real play" is in the human therapeutic area

Cetus is generating some revenue from "short term" Animal experiments at the products such as diagnostic kits National Cancer Institute in the U.S. have already showed that recombinant IL-2 will reduce certain tumour growths and prevent the spread of tumours in logical and medical research.

Revenue is also coming in from the sale of its first recombinant DNA product, a vaccine develop a series of enzymes to designed to prevent a diarrheal modify carbohydrates for food making both the toxin and the to treat cancer effectively and binant DNA product, a vaccine develop a series of enzymes to talk about possible joint linker that binds it to the mono- we have taken three quite designed to prevent a diarrheal modify carbohydrates for food ventures, or licencing or cross-clonal antibody. Other com- separate approaches towards the disease in new born pigs which processing. The company is licencing agreements.



Dr Robert Fildes, now president and chief operating officer of Cetus.

Cetus, Dr Fildes says has enough money to see it through its five year plan. The company, he says, has around \$90m in the bank and can call on will be spent on research.

In the six months to Dec ber there was even a surplus of held top positions in both \$600,000. Beyond the life of the Glaxo, the British pharma-\$600,000. Beyond the life of the

Cetus recently signed a joint venture with Nabisco Brands to

is being marketed by a Smith also in a joint venture with Kline subsidiary. Weyerhaeuser, the natural pro-Weyerhaeuser, the natural pro-ducts company, to look into enzymes which can modify

"Such joint ventures bring knowledge of the marketplace —of what is really needed. another \$55m from partners.
But the nest egg is needed to pay for the setting up of manufacturing and marketing its products and the aim this year is to bring in \$40m from all is happening out there in those sources to cover the \$40m that bloody mills?" Dr Fildes points

Last week Dr Fildes, who has five year business plan Dr centical company and Biogen Fildes sess significant opportunities in applying genetic engineering to agriculture and industrial chemicals.

The centical company and Biogen the U.S.-European genetic engineering company was out looking for more deals. He industrial chemicals. Switzerland and the UK to talk about possible joint

**TELECOMMUNICATIONS** 

# Telephone with no strings attached

between the Transfone and the wall where the socker is wan where the socker is mounted, so there is no danger of people tripping up, especially in hospitals. The unit radiates only 300 milliwatts and has a

Transfore is equipped with handset, dialling key-pad, coin unit and telephone directories. When the handset is in use, the cord to the module becomes an aerial for transmitting the conversation to the phone outlet.

Although there is no major technical novelty, the company says it has successfully patented (in the UK) the coin-operated cordless phone idea so Mr O'Connor believes he will be free of competition for the time

being.
He expects the price of the unit to be a little over £600. He

body of the unit will carry 16 pendent telephone supplies, advertising panels which can Turnover was 50.5m in 1983 and be sold at a suggested price of is expected to double this year. 22 per panel per week by the More on 0608 615396.

REGIONAL Telecom, a small proprietor of the premises. At company in Norwich, has best then, there would be an developed to the prototype stage added revenue exceeding \$1,500.

developed to the prototype stage a cordless pay phone for which managing director Damien O'Comor sees a potential demand in hospitals, hotels, airports, restaurants and other public places.

Transfone, somewhat smaller than a two-drawer filing cabinet, is moved on castors to the point of use and then communicates with a British Telecom telephone socket via a 47 MHz radio link. It weighs no more than a television set. No wires trail it is seeking additional finding to carry the project. £150,000. \_

> Regional Telecom is seeking total funds of £150,000

Should this be obtained Regional Telecom plans to subcontract manufacturing to succontract manufacturing to Electing Systems of Fleet, Hampshire and will either market the units itself or through local PTIs in Europe such as BT.

Mr O'Connor's achievements

to date are not without note. In 1978 he started Phone Centre International in Norwich, a retail establishment in which some 420 products ranging from He expects the price of the some 420 products ranging from unit to be a little over £600. He points out that to rent a conventional coin operated telephone unit from BT costs £300. There are now 42 other annually, so the purchased centres licensed in various parts. Transfore would "pay for itself" in about two years.

There is, however, an added fir O'Conor claims it is "the attraction in revenue terms. The first national network of indeleading computer company 021-4548585

### Domestic robots

INTERGALATIC INTERGALATIC Robots sounds rather a grand name for a small Islington company

for a small islington company with six employees. It has been set up to sell small robots for demessite and education use. These compete with products such as the RBC's Buggy and the Turtle.

Such robots usually have pensutathed and are used for teaching the principles of robotics. At the end of April the company is to launch its Zeaker II inodel for less than £168. The original model I was sold under licence by Coine Robotics har file rights have now reverted to Drold-smiths.

The company was set up by Mr. David Ruckley and Mr. Robin Bradbeer. More infor-mation on 01-355 2536.

### **Instrumentation**

### Small lasers

SPECTRA PHYSICS, based in

SPECTRA PHYSICS, based in California, has developed a helium ness laser tube which it claims is the smallest and lightest commercially available gas device to date.

The midt is only 4.6 in long and can deliver 0.3 mW of power at a wavelength of 623 nanometres. Applications are expected in scauning systems, industrial courted and in medical instrumentation. The UK subsidiary is in St Albans, Heria, on 6727 30131.

**MATERIALS PRODUCTION** 

# Perfect crystals made in space

defects, says the company, and will be useful in high-perform-

ance electronic circults. Semiconductor companies are turning to gallium arsenide as an alternative to silicon, Electrous travel through sallium arsenide very fast. Hence the substance is used for high-speed circuits, for example in tele-communications hardware that handles high-frequency signals. Mr Bob Pace, a vice president of Microgravity Research Assoclates, says he hopes to produce by 1990 40 kg of gallium arsenide made in space. The selling price would be \$1m a kilogram — roughly 100 times the current price of gold. Gallium assemide made convendonally costs about \$20,000 a

space. this, the government body.

"By the 1980s engineers will take the company's experiment baye produced other ways of into space for nothing.

a piece of solid material and are build by 1988 a "space caniste

pulled from the melt. Mr Pace plans for the space operation a new process called liquid-phase electro-epitaxy. An electric current is passed through a bath of gallium and arsenic at about 900 deg C to produce ions, which combine to produce the finished material.

Mr Pace expects by 1997 to sell 1,200 kg of gallium arsenide produced in this manner. By the end of the 1990s, the price should have dropped to \$500,000 a kilogram, at which point armual production should reach 3,000 kg. He says that customers will

be prepared to pay the high price because the material has kilogram.

Mr Neville Murcott, of the sales department of the British company Cambridge Instruments, says he is "very cynical" about whether customers will ever want to buy large amounts of gallium assenide made in space.

Thus it will be used in very high-grade electronic circuits.

Microgravity Research Associates, set up in 1979, last year signed an agreement with the U.S. National Aeronauties and Space Administration. Under this, the government body will take the company's experiments an almost perfect structure. Thus it will be used in very high-grade electronic circuits.

CLAIMS from the U.S. that making defect-free gallium arsenide crystals grown arsenide, basing their technique scale experiments between 1986 and 1989 on Nasa's space gram by the 1990s have processes."

Cambridge Instruments says should test the technique by Britain's biggest manufacturer of the material.

Microgravity Research Associates, based in Coral Gables, Florida, plans to produce gallium arsenide—which is increasingly important in the semiconductor industry—in orbiting laboratories.

In such a laboratory, gravity is reduced virtually to zero so that crystals grow free from distortions caused by weight. Gallium arsenide produced in this way will thus contain no defects, says the company, and will be inseful in high-perform.

some 4 metres in diameter and 12 metres long that would stay in space for months at a time. it would house experiments and materials processing hardware. About four times a year, astronauts from a space shuttle would visit the hardware to check that all was well and to

make adjustments. Mr Pace, who worked engineer for Nasa for 21 years before retiring says that the work by Microgravity Research Associates will cost \$75m to \$100m to 1989. Of this cash, Nasa will put up roughly half, with Mr Pace's company, which he says is backed by private individuals and venture-capital organisations, putting up the

"Space industrialisation is one of the last opportunities that are left for entrepreneurial people," says Mr Pacs. "But it requires a new attitude toward investment. You may have to wait five to seven years for a return, so the normal investment rules do not apply."

### DOCTORS BEGIN TO ADOPT TECHNOLOGY

### Medical computers make slow progress

on a UNIX-based super-micro.

MCS, which is wholly owned
by Dearden and Farrow chartered accountants, has built up its business in private health care. The new Medax system can handle theatre and bed bookings, admissions, out

patients, master patient index billing, stock control. The computer can be used to display current and projected bed occupancy, patients' details, expenditure and statistics. There is security access to prevent unauthorised use. MCS says that no special skills are says that no special skills are

MEDICAL Computer Services, required to operate the system. Most are used for administration MCS, in London has developed A recent survey by Dr with 40 per cent of the work a computer system for private hospitals and clinics. The system gives full financial accounting and hospital administration ing and hospital administration the surgery numbers about 300. diagnostic purposes.

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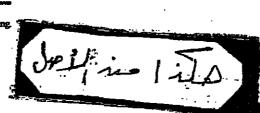
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### BUSINESSMAN'S DIARY

UK TRADE FAIRS AND **EXHIBITIONS** 

April 9-12 Audio Visual Exhibition (01-688 April 9-15
International Fire Exhibition—
LIFE (01-387 5050) Olympia May 15-17
Drillex '84 (0277 220609) Micrographics '84 Exhibition and Conferences (Godalming (Maga) 6853)

Handling Exhibition—
EX (Uxbridge (0885)
Harrogate

Harrogate

Camard International Hotel, W6 SOLIDEX May 1-3 All El All Electronics ECIF Show (0799 26699) Barbican Barbican

International Air Cargo Exhibition and Conference (St
Albans (0727) 63633)

Manchester

May 22-24

Riba computer exhibition and

conference (01-637 8991)

Bloomsbury Crest Hetel

May 2-Oct 21
International Garden Festival Chelsea Flower Show (01-834 (051-236 6096) Liverpool 4333) Reyal Hospital, SW3

on (01-688 Southern Aids for the Disabled Exhibition and Conference (Tunbridge Wells (0892) 44027)

May 20-22
May 20-22
Business to Business Exhibition
(01-729 0677)
Barbican May 1-3
Fibre Optics Exhibition and May 21-25
Conference (0798 26699)
Whithread Porter Tun Rooms
May 1-2

War 1-2

Representation (01-728 0677)

Earbican
May 21-25
International Fire Safety Conference and Exhibition (01-248 4477)

NEC. Birmingham and Exhibition (01-248 NEC, Birmingham

The fields, all operated by the U.S. oil company, could contain up to 2.5 trillion (million million) cubic feet of gas, equivalent to about 6 per cent of UK proven reserves. Couoco has been in contact with British Gas for several months. It

least £750m.

has effectively begun the process of negotiating a sales contract for the The fields could be producing by the winter of 1988, on the assumption that British Gas requires the

volve an initial investment of at

gas in advance of prospective sup-plies from Norway's Sleipner fields. Last month British Petroleum Vanguard and Vulcan. The final erage of 150m cu ft per day, al-(BP) announced development plans well required to appraise Vulcan though the field has the capacity to Last month British Petroleum

BY RICHARD JOHNS AND DOMINIC LAWSON

AT LEAST four new North Sea gas co's, are in the southern gas basin fields are in blocks 49/16 and 49/21 of the North Sea.

The southern gas basin fields are in blocks 49/16 and 49/21 of the North Sea.

The volume of gas supplied could Conoco's fields, of similar size to BPs, could produce at a rate of be boosted further if a decision is 450-550m on ft per day - the equiva- made to include in the development lent of 10-12 per cent of last year's another gas find in a neighbouring average UK demand.

**UK NEWS** 

Conoco to develop four

North Sea gas fields

average UK demand.

The development of the four fields would cost about \$\cap{C750m}\$ at tonership with Britoil. It has a 25 per day's prices, excluding operating cent stake in 49/21, where the other capital. Exploitation of the fields stakeholders are Britoil (37.5 per will require the construction of a cent), Occidental (12.5 per cent), Atlantic Richfield (12.5 per cent) and and the building of a pipeline leading to a central manned platform. It Marathon (12.5 per cent).

Conoco is very close to agreement with British Gas on a contract to supply gas from an earlier dis-covery, the Victor field. The last of is likely that at least 70 per cent of the value of the development would Conoco has just named the four its wells has just been completed. fields North Valiant, South Valiant The contracted output rate is an avfor four gas fields, which like Conowas started last week. The four produce at twice that rate.

### Lucas in £20m investment

By Arthur Smith, Midlands Correspondent

LUCAS ELECTRICAL will tell shop stewards today of a £20m investment plan for its Birmingham starter motor and alternator factories. Radical changes in working practice will be required and jobs will be phased out.

The decision suggests a setback for Lucas's ambitious hopes of tackling the European automotive mar ket in these products through a deal panies are almost equal partners in the French loss-making Ducellier. Negotiations, which have involved the French Government, have stretched over nearly seven

Lucas is likely to tell workers that whatever option might have once been considered for invest ment in France, the nearly £20m being committed to its Birmingham operation will enable the UK to

### BASE LENDING RATES A.B.N. Bank 81% Allied Irish Bank 81% Amro Bank 81% Henry Ansbacher 81% Armo Trust Ltd. 81% Associates Cap. Corp. 9% Banco de Bilbao 81% Bank Hapoalim BM 81% BCCI 81% Knowsley & Co. Ltd.... Lloyds Bank ..... Mallinhall Limited ... Edward Manson & Co. Meghraj and Sons Ltd. Midland Bant Morgan Grenfell National Bk. of Kuwait Bank of Ireland ..... Bank of Ireland Bank of Cyprus Bank of India Bank of Scotland Banque Beige Ltd Banque du Rhone Barclays Bank Beneficial Trust Ltd. Brit. Bank of Mid. East Brown Shipley CL Bank Nederland Canada Perm': Trust National Girobank ... National Girobank ... National Westminster Norwich Gen. Tst. ... People's Tst. & Sv. Ltd. R. Raphael & Sons ... P. S. Refson & Co. ..... Roxburghe Guarantee Royal Trust Co. Canada L Hangr Schwadar Wass J Henry Schroder Wagg Standard Chartered ....! Trade Dev. Bank ...... TCB Trustee Savings Bank United Bank of Kuwait Choular Lawrie Savings 91% Clydesdale Bank 81% C. E. Coates 91% Comm. Bk. of N. East Consolidated Credits. 81% Co-operative Bank 81% The Cyprus Popular Bk. 81% Duncan Lawrie 81% E. T. Trust 91% Exeter Trust Ltd. 91% First Nat. Fin. Corp. 11 % First Nat. Secs. Ltd. 91% Robert Fraser 91% Grindlays Bank 81% Cuinness Mahon 81% Hambros Bank 81% United Mizrahi Bank... Volkskas Intul. Ltd. ... Volkskas Intul. Ltd. ... Westpac Banking Corp Whiteaway Laidlaw ... Williams & Glyn's ... Wintrust Secs. Ltd. ... Voksking Bank Members of the Accepting Houses Committee. 7-day deposits 5.25°4. 1-month 6°4. Fixed rare 12 months C2.500 8°4. \$10.000, 12 months 8.25°4. 8% \$10.000, 12 monants of under \$7.day deposits on sums of under \$10.000 \$74%, \$10.000 up to \$50.000 \$4%, \$50.000 and over \$74%. \$20.000 and over \$54%, \$21-day deposits \$1.000 and over \$54%, \$21-day deposits \$24%.

### OVERSEAS TRABE FAIRS

April 11-15 International Fur Trade Fair (01-734 0543) Frankfurt April 16.19 Frankfurt
European Trade Fair for Technics and Organisation in Banking
(Luxembourg 2 69 31) Milan
April 24.27 Food and Hotel Asia (01-486 1951) Singapore May 20-27

April 30-may 2 Direct Marketing Symposium and Exhibition (01/69 48 20) Montreux

Systems Components and Materials for Industrialised Building Sector Exhibition (01-486 1951)

Asian Automotive and Accessories Exhibition (Guildford (0483) 28085) Singapore

International Packaging Exhibi-tion and Display of Confec-tionery Machinery — INTER-PACK (01.493 3893) Dusseldorf

International Aerospace Exhibi-tion (01-651 2191) Hanever

Asian International Electronic Communications Exhibition and Conference — COMMUNICASIA (01-488 1951) Singapore:

May 9
Longman Seminars: The electronic banking revolution—
legal and security problems

(01-242 8697) Cavendish Conference Centre

Longman Seminars: The Lloyd's Act (01-242 2548) Barblean

(01-242-2548) May 10

### BUSINESS

Metal Bulletin: 2nd International Conference on Copper (01-330 4311) (until April 10) London Marriott Hotel, W1 April 11-12 FT conference: Enropean bank-ing (01-621 1355) Hilan April 12 Henley Centre for Forecasting seminar: The UK Economy (01-353 9961)

April 13-14
Goethe Institute, The future of Way 13-14
Weed: Law and business in the UAE (01-404 5518 Abu Dhabi April 13-14
Goethe Institute. The future of work, challenge and opportunity (01-581 3344)
So Princes Gate, SW7
Lloyd's underwriters, taxation planning and advice (01-381 1284)
Waldorf Hotel, WC2 Dawson—the implications (01-242 2548) Barbican

legislative threats to directors (01-388 1811) Cafe Royal, WI May 3-4

FT/The Banker: World gold FT Conference: Sitev—World FT motor conference (01-621 1355)

motor conference (01-621 1355)

1

75

May 16 Dawson—the implications (01-242 2548) Barbican Institute of Marketing: Market-ing for profit (Bourne End) Insig: Banks and computers (1) (06285) 24922) 763.07.24) Paris Reyal Lancaster Hotel, W2 763.07.24)
April 26-28
Progress Foundation / IMF: Institution of Taxation: Finance Money—a search for common Bill 1984 (01-235 8847)
ground ((091) 68 92 69)
Lugano. Switzerland May 22-24
May 3
Institute of Directors: New Global civil satellite navigation: legislative threats to directors systems (01-589 5021)
Novotel, W6

Anyone wishing to attend any of the above events is advised to telephone the organisers to ensure that there has been no change in the details published.

### Financial Times Conferences

The following is a list of conferences being organised by the Financial Times in 1984:

> **EUROPEAN BANKING** Milan — April 11 and 12

THE FT WORLD GOLD CONFERENCE Hong Kong --- May 3 and 4

SITEV - FT WORLD MOTOR CONFERENCE Geneva — May 23 and 24

> THE FT/CITY COURSE London - May 3-June 20

THE ELECTRONIC OFFICE: Threshold of a New Era London - June 5 and 6

OIL AND GAS Oslo - June 18 and 19

WORLD ELECTRONICS: **Future Strategies for Europe** Lordon - June 20 and 21

FOREIGN EXCHANGE London - June 25 and 26

WORLD AEROSPACE: Aerospace after the Recession London - August 28, 29 and 30

All enquiries should be addressed to:

The Financial Times Limited Conference Organisation Minster House, Arthur Street London EC4R 9AX

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Milan, February 1984

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### Friday June 15th

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Financial Times, Bracken House 10 Cannon Street, London EC4P 4BY Telephone: 01-248 8000 Ext. 3300

### Co-op opens up credit card business

BY DAVID LASCELLES, BANKING CORRESPONDENT

its Visa card business was pro-cessed by Bardaycard's centre in Northampton. It will now be handled by the Co-op's new processing

Although the Co-op has few cardholders by UK standards - about 80,000 - its move marks a step towards greater competition in the credit card business, which will be intensified when Trustcard, with 2m cardholders, takes a similar

step next year.

Mr Terry Thomas, the Co-op's chief executive, said "This will give us a degree of flexibility we never

He hinted that the Co-op will be offering more attractive terms to cardholders in order to attract them. away from other banks. These could relate to the cost of using a having one. He declined to give details but said changes could be expected by next authors. pected by next autu

Britain's credit card business has evolved around two major organisa-tions. Barclaycard (which handles a total 9m cards including Trustcard, Co-op after deducting a fee.

THE CO-OPERATIVE Bank this week becomes the first bank to run land, in addition to Barclays), and an independent credit card operation in the UK. Until last weekend, tions of NatWest, Midland, Lloyds and several smaller banks, and

> While banks in these groups can theoretically set their own terms for their cardholders, in practice they are restricted by what the sys

> The Co-op took the first step towards independence several years ago when it became a member of the Visa card group in its own right. Three years ago it started developsoftware from First Data Re-sources, the largest U.S. data processing company, which is part-owned by American Express. Exactly a year ago, it gave 12 months no-tice to Barciaycard that it wanted to

Barclays will also take the commissions on sales made with Co-op cards, but will pass them on to the

# **European Ferries** seeks to bid for Sealink UK

Sealink, part of British Rail and run in partnership with continental companies, is up for sale to the private sector. City of London analysts European Ferries, said yesterday: have suggested the price could ex
"It is in the public interest that ceed £50m and even approach there should be a strong UK opera-

The Monopolies and Mergers competition from subsidised Commission ruled in December French Belgian and Dutch cross-1981 that a bid by European Fer-ries, which runs Townsend Thoresen ferries and had indicated its intention to make an offer for Sea-link, would be against the public interest. It said that the merged company would dominate the market. European Ferries believes, however, that now that Sealink UK is

officially up for sale, as part of the Government's privatisation pro- & O Ferries some way behind in gramme, it should be allowed to hid, third place. Hoverspeed, recently European Ferries' decision to taken over by its management, is urge the Government to remove the the only housecraft operator.

ban follows the refusal of British Mr Siddle and that a merger be

Rail and its merchant bank adviser, taseen Scalink and European Fer-Morgan Grenfell, to allow it to re-ceive information being sent confideresult of greater efficiency." The entially to potential buyers. Mr Nicholas Ridley, Secretary of fares after a severe price war.

EUROPEAN FERRIES, the main State for Transport, said on Friday Channel operator, will press the that about a dozen companies or Government to hift the ban on it but consortia had shown interest in ding for Scalink UK. It claims that Scalink Although he mentioned no lower fares to the European Continuames, these are known to include lower fares to the European Country pent could result from a merger of Trafalgar Rosse, Peninsular and the two companies.

Sealink part of British Bail and Sea Containers and a group including National Freight Consortium.

Mr Kenneth Siddle, chairman of

tor, efficient enough to with He added that it was essential for

Britsia to have a major operator capable of running an efficient ser-

European Ferries is the biggest cross-Channel ferry company with about 40 per cent of the market, closely followed by Seelink, with P

### Trading automated

BY OUR FINANCIAL STAFF

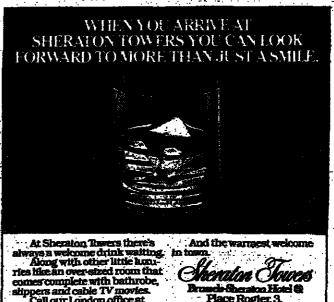
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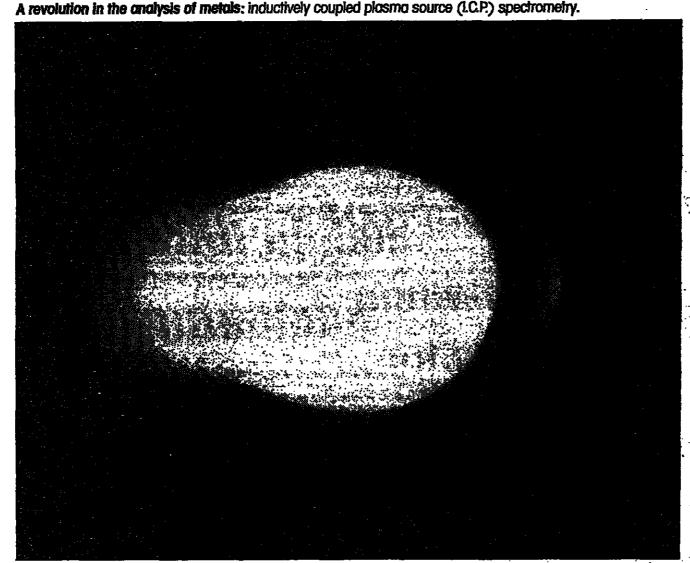
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# NatWest inaction in 1983

### Action for our personal customers

We welcomed over half a million new personal customers in 1983 and more students placed their confidence in us than in any of our competitors.

We will have 1,200 Servicetill machines in operation by the end of 1984 and the reciprocal arrangement with Midland Bank means that our customers are never far from a source of instant cash.

We also helped over 100,000 customers buy their own home and are the only clearing bank to operate a specialised mortgage lending company.

### Action for our business customers

Our total lending to small businesses is now in excess of £4 billion. Within this figure over£1 billion has been lent to 90,000 companies through our Business Development Loan Scheme. We are the market leader in the Government's Small Firms Loan Guarantee Schemein September we were the first bank to announce agreed loans totalling over £100 million, over half of which went to new businesses, helping in the creation of 12,000 jobs.

Our support for the agricultural community is expanding and we are now lending well in excess of £1 billion to farmers.

### Action for savers

We now offer a wide range of savings accounts through our branches and the NatWest Saver Service Centre.

In December, we introduced 'Piggy Bank' and 'On Line', two new schemes for young people which, to date, have attracted over 300,000 new accounts.

### Action around the world

In September, the name of National Bank of North America was changed to National Westminster Bank USA. New offices have been opened in Dallas and Denver while, in the Far East, a representative office was opened in Kuala Lumpur and, in Europe, a marketing office in Barcelona.

### Action for the community

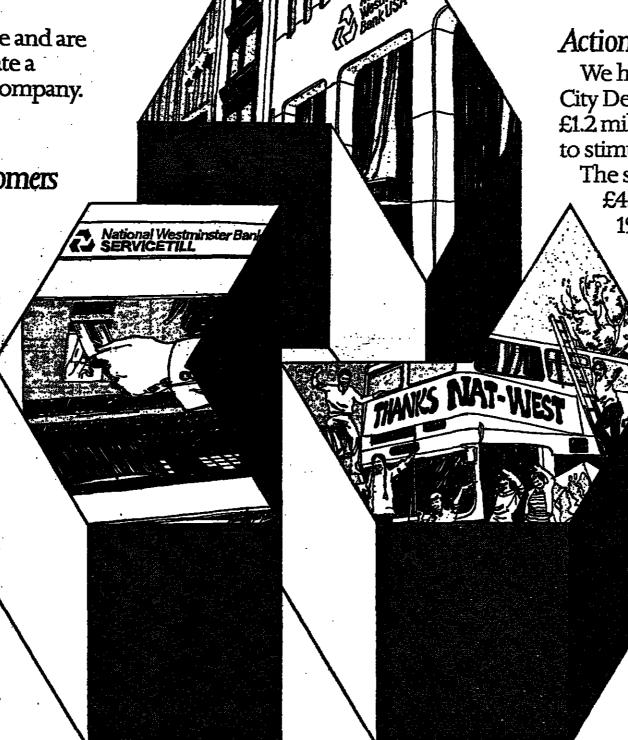
We have initiated a special Inner City Development programme, making £1.2 million available to launch projects to stimulate job creation or training.

The sum was in addition to the £4.5 million the Bank committed in 1983 to its social responsibility programme.

An important feature of our community involvement is the secondment of NatWest employees to a wide range of charitable organisations.

### Action for young people

In addition to the schoolleaver recruits who have
joined us in 1983, we have
welcomed 200 young
people into a programme
of broadly based training
and work experience
within our branches under
the Government's Youth
Training Scheme.



The Chairman, Lord Boardman, comments: -

In 1983 the dominant external factors were the drop in the rate of inflation in most developed countries—especially the United Kingdom—continuing high real interest rates and the disappointingly modest growth in world trade.

At home, the Government's financial policy of firm control of the money supply and containment of the budgetary deficit reduced inflation successfully, bringing it down to levels that we had not seen for some fifteen years. During the year, many industrial and commercial companies and firms, whose survival had appeared doubtful, established much better financial health—though, sadly, there are others where the future is still a cause for concern.

As one of the world's leading banks, we are

### Financial Highlights 1983

Money lodged £55,200 million

Money lent £45,200 million

Group pre-tax profit £503 million

Retained profit £322 million

Copies of the 1983 Report and Accounts, which include the Chairman's Statement in full, may be obtained from the Secretary's Office, National Westminster Bank PLC, 41 Lothbury, London EC2P 2BP, or at NatWest branches.

an important component in the economy of the United Kingdom. We have a responsibility to assist wherever we can in the restoration of the prosperity of the country and to take full account of the national interest in all our operations.

There are signs that the worst of the recession is behind us. Forecasts for economic growth and for the rate of inflation are encouraging and confidence, a key factor, is returning. Business investment is also

expected to recover. However, a further reduction in interest rates would ease the burden on industry, give rise to more capital investment and impact upon unemployment.

The Bank, as a major financial force, has responsibilities towards its shareholders, customers, staff and to the country's economy as a whole. It is our task to balance these interests, to maintain momentum in the provision of an increasing range of financial services and to achieve a level of profits that will enable us to meet the increasing demands of our business.

# A NatWest The Action Bank

### **UK NEWS**

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# NatWest may face extra tax bill of £577m

tion of those allowances removed

NatWest avoids saying how it will

menting: "Exactly how and when

lowances are phased out.

BY DAVID LASCELLES, BANKING CORRESPONDENT

NATIONAL WESTMINSTER, Brit- per cent in the first year. The aboliain's second largest bank, calculates that the Government's deci- the tax shelter from those earnings. sion to phase out capital allowances could cost it up to £577m in extra handle the huge tax problem, com-

In the most precise statement yet this will happen is not yet certain." by any of Britain's leading commer-cial banks on the impact of the re-leasing business it writes over the cent budget, NatWest says in its an- next couple of years as capital alnual report out today that the total additional bill could be as high as The news is contained on a spe-1961m. It doubts, however, that it cial sheet of paper slipped into the additional bill could be as high as would ever have to pay more than annual report, which was complet-60 per cent of this. One reason is ed and signed seven days before the that the budget also cut corporation March 13 budget. NatWest has de man, said in his statement - also

amount in £577m, but NatWest said changes. only that the extra cost would be in The extra tax liability arises be-

Sixty per cent of £961m would

cause banks never expected to have deal with the problem in one go, but to the company's leasing equipto pay tax on earnings from their company's leasing equipleasing business, thanks to capital fifth of its capital, and a rights issue allowances which amounted to 100 would almost certainly be neces-

the bank could pay the taxes out of earnings over several years, which would leave its capital unimpaired but produce lower profits.

NatWest has said only that "this matter is under consideration," but it seems to be veering towards the

NatWest's total group profits, amounted to £503m before tax in 1983 compared with £439m the year before. Its tax charge was £102m,

Ironically, Lord Boardman, chaircided against adjusting its 1983 ac- written before the budget - that counts in the light of the tax NatWest's large leasing business changes. The figures shed some light on poration tax the bank pays. He not-the dilemma facing NatWest. The ed that much of the benefit was bank could dip into its reserves and passed on in the form of lower costs

# Blow to investment profitability

BY MAX WILKINSON, ECONOMICS CORRESPONDENT

nvestment will be significantly reluced in the long run as a result of the budget tax changes, London broking firm W. Greenwell says in an analysis published today. The analysis considers the effect

of the phased withdrawal of the 100 per cent first-year allowance for capital investment against corpora-tion tax and the reduction of corporation tax from the present 52 per The main conclusion is that the

cut in corporation tax will not fully

when the changes have been fully implemented after March 1986.

In the interim period, Greenwell confirms the Treasury's general claim that companies will gain a substantial tax advantage from consumer goods industries to capital goods industries. substantial tax advantage from their investments because they will still be able to claim some tax allowance for the investment, whereas stment will be subject to a low-

THE profitability of new company drawal of the first year allowances, there will in all probability be a large but temporary boost to indus-trial investment during 1984-85 and 1985-86. The current economic re-

> A further analysis of the likely effect of the changes on company cash flow comes to a rather differthe profits eventually made by the cause the 100 per cent first year al-lowance for capital investment is to Greenwell says: "An important be replaced by annual allowance conclusion for the economy is that spread over the life of the plant.

### Treasury jobless forecasts challenged

By Anton La Guardia

UNEMPLOYMENT will continue to rise for the next five years to a peak of 14½ per cent in 1988 unless the Government changes its policy radically to boost growth to around 4 per cent, says Lloyds Bank in its monthly economic bulletin published today. The bulletin, written by Mr Christopher Johnson, the bank's

economic adviser, says that this would mean abandoning hopes of eliminating inflation, but would not necessarily return the country to double digit inflation. Mr Johnson believes that unemployment could be brought down to around 9 per cent with-

out triggering rampant inflation. The report says that the Treanine report says that the reac-sony's predicted growth of 2% per cent for the next five years, which is higher than the projec-tions of most independent fore-casters, could not bring down un-employment as the Treasury claims.

This is because productivity increases are unlikely to fall be-low 2 per cent a year and the la-bour force is expected to contin-ne growing by 0.4 per cent until

The report predicts an average growth of only 2 per cent to 1988. It says that GDP will grow by 2% per cent this year compared with a Treasury forecast of 3 per cent, because earnings are rising too rapidly for Britain to maintain its share of export markets.

Mr Johnson imposed a political cycle for his predicted average growth of 2 per cent for the next five years. He says that growth will fall steadily to 1½ per cent in 1986, and the Govern-ment will react to rising inflation by raising interest rates. This would prepare the ground for ex-pansion just before the next gen-eral election, which the report ects in 1988.

Unemployment could rise to a peak of 14% per cent in 1988 even after allowing for a 1 per cent fall next year, because of the abolition of the national insurance surcharge, which helps to reduce

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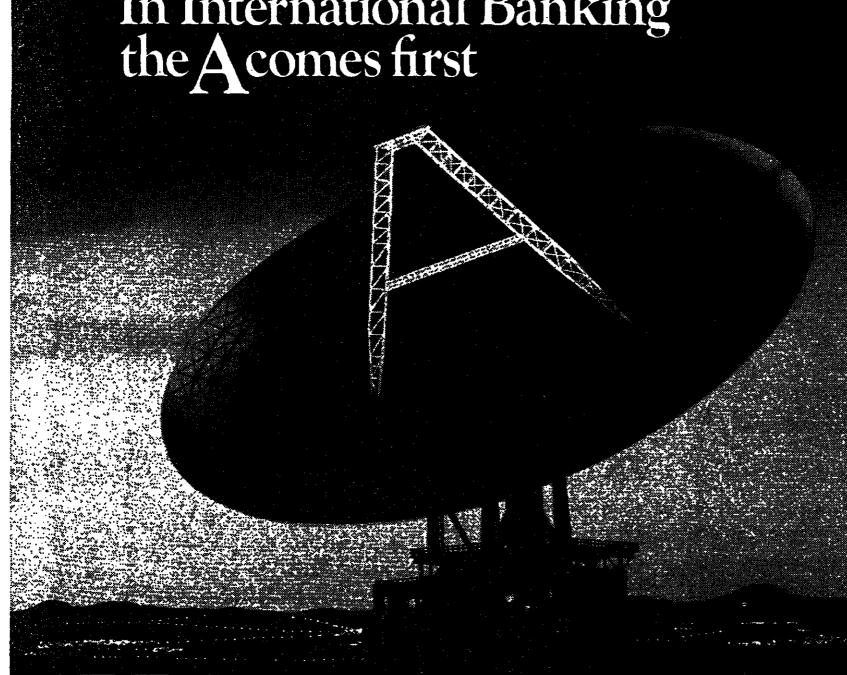
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### **UK NEWS**

David Fishlock, Science Editor, reports on a £450m European fusion project

# Simulating the sun's energy

QUEEN RIZABETH and President François Mitterrand of France will be present today at the formal inauguration of Vat the Indian President Jet is a £450m European research of electricity for the next century. of electricity for the next century.

Visitors to Jet are often impressed by its heavy overhead poword is spending about 51bn a year on fusion research and developer lines, comparable to those of the ment (R and D). nearby Didcot coal-fired power station. They comment that Jet must contribute generously to the nation's electricity.

from contributing electricity, their apparatus will consume about as apparatus will consume about as much power as Didcot produces during the brief spells when they are running it. During such runs, they will attempt to simulate the conditions of temperature, pressure and radiation present in the sun, by injecting electrical energy into what Je's project director, Dr Hans-Otto Wuester, calls the world's biggest magnetic bottle.

- - :

034

. .

Jet is an experiment which brings together about 1,000 engineers and scientists scattered in fusion research laboratories throughout 12 European countries. They built it in five years, for about £175m, only about 8 per cent more (excluding inflation) than was estimated when the European Community's Council of Ministers approved the project in 1978.

inauguration of Jet, the Joint Euro- department of fuel and energy at example with radioactive wastes. Leeds University, in a talk in Lon-don last week. Nuclear fusion is by collaboration to study the basic far the most generously funded of physics of thermonuclear fusion as possible afternatives to staple metha step towards finding a new source ods - coal, hydro, miclear fission -

Moreover, this investment is mainly in exploring basic physics of fusion reactions, using apparatus such as Jet, and not in developing The scientists explain that, far the technology and engineering of

> search, no one yet knows how to harness the thermonuclear reacsion in a way that will release heat slowly, safely and controllably. Dr Hope rates the chances of

eventual success - that this research will ever demonstrate the technical feasibility of fusion power as being between 30 and 70 per cent. Should it prove unfeasible, he says, "the costs of fusion R and D

will bring no economic return." Even if fusion proves technically feasible it may be too costly to compete successfully. The competition, looking 30-40 years ahead as the earliest possible date for commercial fusion reactors, will be the fast breeder type of fission reactor.

The cost of harnessing such powerful reactions safely, however, and of frequently replacing expensive reactor parts destroyed by the intense radiation, could put fusion power beyond the cost of fast reactions. fors. Fast reactors have already its skills in high technology, for exbeen shown convincingly to work, and may yet be shown to be an ef-

Dr Hope draws the "very tenta-tive" conclusion that "no country, cial spin-off ventures, planned to however large, would be economistart this spring, is an R and D club cally justified in going it alone on for companies for whom "struck by fusion R and D solely to supply electricity for its home market." Only it it expected to dominate the world market for fusion reactors would such a solo effort be justified.

He concludes that a collaboration 20th of the benefits - should they occur - could be justified economi-To try to avoid the risk of a selfperpetuating activity the European Community agreed to fund only

experiments expected to last until 1991. There is no "next project" be-

is the Culham laboratory of the UK Atomic Energy Authority, one of the world's leading fusion research

ample in the design of high-power lasers, needed to extract data from fective way of consuming radioacthe heart of an apparatus such as

The club - to be called the Culham lightning studies unit - will use its expertise and equipment in in which 20 nations each contributed a 20th of the cost to secure a make artificial bolts of lightning Such bolts can be up to 1m volts with currents as high as 200,000 amperes. At close range the thunder clap is so loud as to be painful.

Companies likely to join the club include Westland Aircraft, for

Jet's construction and a service of whom the increasing all-weather use of helicopters in the North Sea is posing problems in storms. The ing planned at Culham.

The next fusion experiment could to fly through the "worst lightning" unit has a model helicopter it plans well cost five times as much as Jet, environment we can imagine," in a the scientists say. It may be so cost-by that a still wider collaboration, ways of protecting the aircraft.



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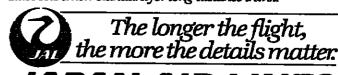
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### International groups vie for satellite deal

BY MICHAEL DONNE, AEROSPACE CORRESPONDENT

TWO INTERNATIONAL groups, lites belonging to the International both headed by UK companies, Telecommunications Satellite Orga-have submitted bids for the International Maritime Satellite Organisation's proposed next-generation \$500m (£349m) nine-satellite system, to become operational from

British Aerospace's Dynamics Group and Hughes Aircraft of the U.S., jointly head one group; the other is headed by Marconi Space System together with Ford Aerospace and Communications of the

U.S. and Aerospatiale of France. The Inmarsat system provides satellite communications for world- ceiving and transmitting stations in wide shipping and offshore indus- the U.S., Japan, Norway, the UK, tries. The system uses a U.S. Mari-Kuwait, Singapore, France and sat satellite, the European Marecs Brazil, giving virtual global cover-

Because of expanding demand, Inmarsat expects to lease additional satellite capacity in the next year or so, especially on another Euro-pean satellite, Marecs B-2, which is expected to be ready for service in

January, 1985. By April this year, 2,350 ships were equipped for the Inmarsat sys-tem, providing ship-to-shore, shoreto-ship and ship to-ship communications. There are 10 land-based re-

### Directors say technical education inadequate

BY JOAN GRAY

BRITAIN is falling behind its con- more management disciplines in tinental European competitors as a troduced into education. result of the poor image of vocationing to the Institute of Directors.

In a submission to Sir Keith Jo-seph, Secretary of State for Education and Science, the institute urges

It argues for a "proper balance" in major changes in Britain's education system to close the gap between education and employment. It wants to alter the balance of a system which produces a workforce tionally qualified, compared to 60

per cent in West Germany. The institute says that the world

It wants teachers in training to spend some time in industry or commerce and qualified teachers to combine industrial or commercial experience with in-service training. pre-university education between specialised academic work and in-

The institute also urges that the in which only 30 per cent are voca- polytechnics should be firmly redirected to being centres of excel-

It comments that, even with high of work and schools should be brought closer together. It urges stronger links between schools, polytechnics and universities and encouraged to run suitable courses.

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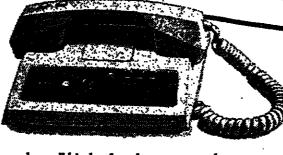
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**III** HARRIS

### UK NEWS

# Clinical trials begin soon on genetically engineered drug

BY CARLA RAPOPORT

in Western Europe, will administer North America. genetically engineered human growth hormone (RGH) to patients suffering long-bone fractures as well as seriously burned patients. In both cases, HGH is expected to accelerate the healing process significantly.

North America.

Under its agreement with Generates, KabiVitzum has the rights to market Somatonorm outside North America, but will pay royalties to Generate the healing process significantly.

To date, HGH has been used only to treat pituitary dwarfism, a rela-tively rare disease. The two other genetically engineered products, human insulin and interferon, have yet to find widespread commercial

yet to find widespread commercial acceptance or applications.

The new clinical trials of HGH will be carried out in Europe by KabiVitrum, the Swedish-based pharmaceutical and nutritional products company. Mr Nils-Olof Johansson, vice-president marketing of KahiVitrum, said recently. To have abundant supplies of a hormone which causes no side-effects and which has a number of applications to diseases which have no tions to diseases which have no cure, I think we are talking about a breakthrough in medical technolo-

**EEC** farm

By Richard Mooney

deal defended

by Tugendhat

BRITISH farmers were not treat-

German and Dutch farmers had

suffered support price cuts in their national currencies while

oning overlooks two vital oints," he said. "One is that in-

Germany and Holland, farmers were getting significantly higher prices in real terms before the

He claimed that even after the

rope of a genetically engineered drug - to speed the healing of broken bones and severe burns - are to start this year.

The trials, which will take place in Western Europe will administer the company of the rew uses for HGH this year, but only in North America.

The results of clinical trials of the product on children with pituitary dwarfism are expected this year, ac-cording to KabiVitrum. They are encouraging," said Mr Johansson,
"The children are growing perfectly
well, with no side effects." He said that product licences to market the drug for this disease are expected

in Europe by early next year.

The new clinical trials on bone fractures are likely to be concentrated as British, a centre for this area of vectors.

The level of this area of vectors in the level of this area of vectors in the level of the level of this area of vectors. area of research. The burn studies will be concentrated in Sweden.

CLINICAL TRIALS for the first KabiVitrum developed the pro-widespread commercial uses in Eu-cess to make HGH, which it will id healers. We will concentrate or. those patients which can benefit most from the treatment." In the case of hurn treatment, the company will be initially aiming to help patients in danger of dying from their wounds.

> through genetic engineering was developed in the late 1970s by Gen-entech. Kahi Vitrum has been a from humans since 1968, but has been limited in its research in this area because of the limited avail-ability of suitable donors. The hormone can only be removed after death. It has recently completed a new plant to make HGH in Sweden. • The British subsidiary of Ciba-Geigy, the Swiss drug company, is appealing against a recommenda-tion by the UK Committee on Safe-

will be concentrated in Sweden, for the treatment of arthritis, but which has extremely advanced the CSM says that safer alternatives are available. The committee Mr Johanssen said that HGH recommended last month that all would most likely be used for pa-tients with fractures that had not healed normally, primarily those in the taken off the market.



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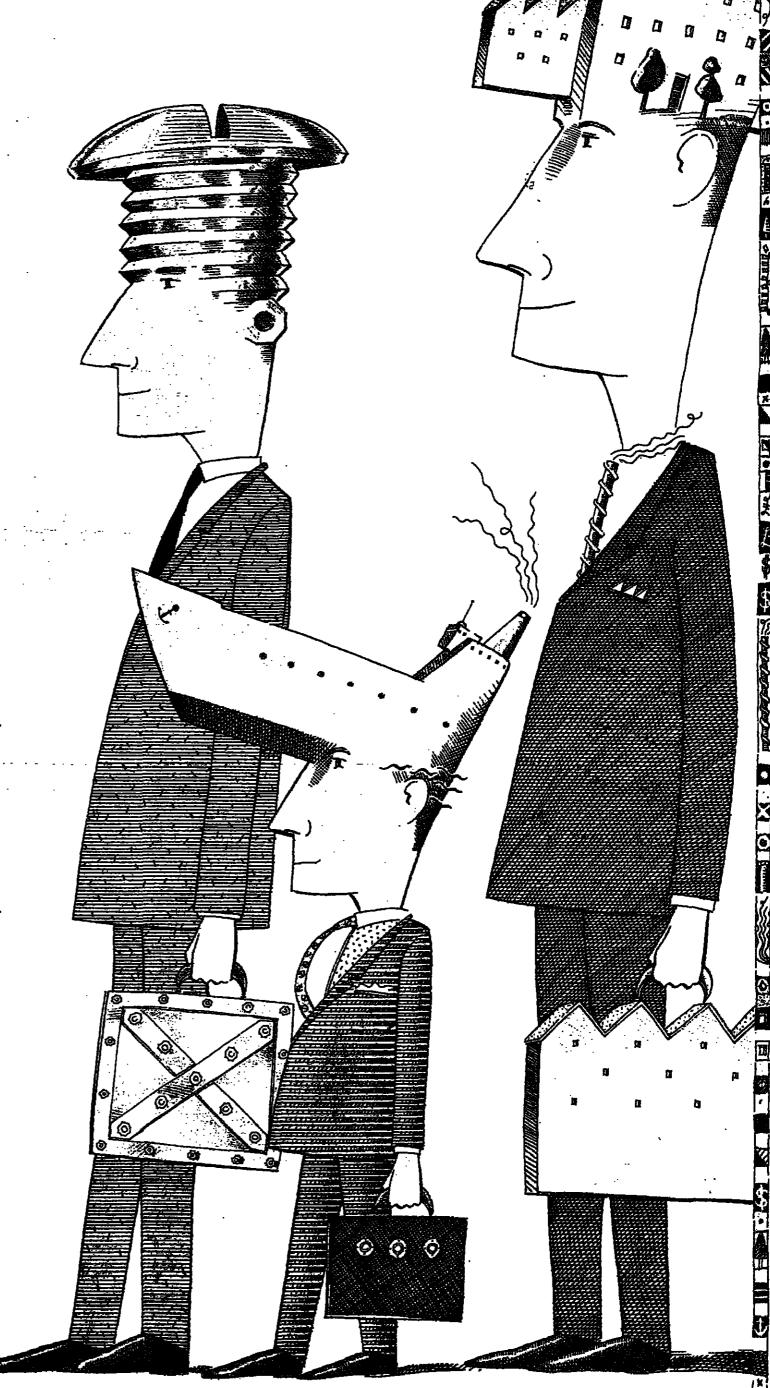
pany with up to £35m or more; we have ICFC, whose understanding investors of small companies' problems is

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THE CREATIVE USE OF MONEY



come to realise—some through painful experience—the need to speak up persuasively in Brussels and Strasbourg if they are to ensure that their interests are not bypassed. As the European parliament (based in Strasbourg) has grown in importance since 1980, it has more and more been the target of this attention.

of this attention.

"After key debates you can hardly fight your way through the crowd of lobbyists outside the chamber," says Derek Prag, MEP for Hertfordshire and himself a former lobbyist.

"Far more British companies to Strabburg you." says

go to Strasbourg now," says
Peter Anderson, European
specialist with the Charles
Barker public relations group.
"The European parliament
really can take action to support
an industry—for instance, it
watered down the Commission's proposal for recycling drinks containers when it was approached by the drinks industry."

Lobbying is seen as a perfectly legitimate activity and there is currently no control on lobbyists or even a register of MEPs' interests, though one has been proposed. MEPs are frequently retained as consultants to interest groups.

While the parliament is com-

monly regarded as toothless, the fact is that since a decision by the European Court in 1980, no measure can become law unless and until its opinion on formally transmitted to the of Ministers. Effectively it now has the power of veto. And with an elected parliament instead of the previous appointed one, MEPs have become much more vociferous on behalf of their constituents.

early as possible with the Commission to avoid real lobbying later," says Caroline Colvin, head of the CBI's European Community Department in London. "Then you need to stay tuned in, as issues can take several years to go through the

several years to go through the mill. Even then you sometimes get taken by surprise."

"The Commission is one of the most open bureaucracies in the world," says Derek Prag.
"The sooner it hears about objections, the easier it is to meet them. It really wants to hear outside views and solutions while it's drafting legislation. while it's drafting legislation.
It's looking for help with information and statistics."
Most British companies have

an office in Brussels as a lobby-ing springboard because of the

# Knocking at the door

Colina MacDougall explains how business can best lobby the European Commission



ation is initiated at the Commission and any company fearing for its interests would be wise to start there"

from members' subscription

and numbers have declined because of the recession. Fur-

thermore, as one expert said, "the trade association's view is

likely to be the lowest common denominator," and this is especially true at the European level where one can speak for

10 countries.
Unlike the trade associations,

the CBI has its own small office in Brussels in addition to work-ing through the Union des Industries de la Communauté Européenne (UNICE—the un-

brella organisation for national industrial bodies). It handles industry-wide problems like the restriction of noise volume in

factories or the effects of the 5th Directive—the so-called Vredeling directive—which would compel worker representation on company boards. It

claims success in raising the ceiling on size of companies excluded from that directive

The CBI will also advise on

companies' specific difficulties.
"It's taking some people in
Britain a long time to catch up

with the Community, especially

if they don't trade with Europe," says Colvin. "They need help. Lots of our members aren't even aware that we have an office in Brussels. We

try to take people over there, show them round the Commis-

sion, take them to Strasbourg,

guests. We may be able to find

from 500 employees to 1.000.

cost (£100,000 annually, at the last count by the CBI). The exceptions are mainly the multinationals like Shell and Unilever. A surprising number of Americans and Japanese have set up listening posts there and are often to be seen among the lobbyists.

In Britain the favoured option for the biggish company is the in-house specialist, who is often part of the public affairs department of the company and works However, legislation is part-time on Brussels business. Marks and Spencer, for instance, has a three-day-a-week interests would be wise to start there. "We try to consult as early as possible with the Comby surprise at how far issues had gone," says one M and S man. "Now he's constantly going to Brussels and we're much better briefed."

An alternative approach is through the trade associations. With more or less efficiency, they represent their industry, garner information and put their views into Brussels, mainly through their Europe-wide organisations. The Commission prefers to hear from a trade association rather than a company, and indeed one senior Commission official recently told a multinational lobbying on its own account to push off.

Trade associations vary enormously in size and resources. Today many are short of funds lay on lunch with suitable because their finance comes guests. We may be able to find problem."

Private consultants provide

another option, "though people tend not to call us in until the tend not to call us in until the situation's really desperate," one complains ruefully. Unlike practitioners of the Westminster art, consultant specialists in European lobbying in London can still be counted on the fingers of two hands, though in Brussels, there are about 200 Brussels there are about 200 companies which do consultancy work. Some of these have English-speaking staff.

For businesses which just want to keep in touch ("and that's 90 per cent of good lobbying," says one EEC official), some companies provide digests of the daily flood of EEC paper. Some consultants have chalked up remarkable suc-

cesses. In one case, a multi-million pound business faced extinction when the Commission wanted to ban meat tenderisers. The company tried to make representations through its European-level through its European-level trade association but failed to generate support because its particular tenderising process is only used in Britain and

Consultants then approached the Commission, but it refused to budge. However, at the committee stage the consultants managed to convince the Dutch and German members to alter "tenderisers" to "all forms of

dangerous substances." Not all lobbying works. For instance, in recent years the Brewers' Society has tried to persuade the Community to permit the old "tie" system under which pubs buy all their goods from the breweries—to continue. But the Commission's new ruling, while allowing a version of the system, gives the pubs more freedom to purchase goods other than beer else-

British MEPs felt the brewers' case was badly presented at Strasbourg. Besides displaying a degree of heavy-handedness. one consultant felt the brewers had paid insufficient attention to MEPs of other nationalities -a common failing among

British companies. More important, as far Europe was concerned, the brewers didn't have a good case. Their interests clashed with the Community's, which after all is there in part to encourage competition. On top of that, con-sumer organisations are strong in Brussels, and carry much weight with the Commission's directorate-general

handles consumer affairs. But where a company has a ensible cause and makes a timely presentation, a well-run lobbying campaign can achieve Cable television

# Why entertainment alone will not produce the profits

BY RAYMOND SNODDY

BLEAK, uncompromisingand unprofitable—picture of the future of cable television as an entertainment medium has been drawn by McKinsey, the man-

agement consultants.
With the first film channel to use cable already signing up its first customers and the 11 winners of new franchises now planning their networks and raising their finance, McKinsey has issued a general warning. It maintains there is a danger that many people with the wrong managerial skills may be planning to offer the wrong sort

of cable services and market them in an inappropriate way. Although new films will be a major attraction of cable TV, McKinsey believes that an entertainment only service is never likely to achieve a positive cash flow—unless it is sub-sidised by a cable layer such as

"Total operating losses under optimistic assumptions (for a 100,000 home franchise) will reach £10m by the late 1980s and never be recouped," McKinsey concludes after a 15month study of the prospects.

McKinsey staff with exper-

ience in banking, marketing, electronics, telecommunications and advertising were brought together for a project called DICE — Domestic Information Communication and Entertain-

"The fact that we called it The ract that we caned in DICE probably gives a view of the degree of risk and uncertainty with which we regarded the project," says Tim Breene, one of the two McKinsey partners involved.

The aim was to look at the broad issue of the impact of digital technology on the home and at how managers should be responding to the consequences of the deregulation of broad-casting and telecommunications and the growing competition in financial services

A lot of work had been done, McKinsey believes, on the office of the future but little on the home of the future or what home banking and shopping would mean for retailers and clearing banks. "Our purpose was to evaluate the nature and pace of the development of the home of the future and to see

if it had any implications for today's business leaders or whether it was some futuristic cliche," says Breene. cilche," says Breene, who has worked for both Mars and

Unilever.

The DICE players believe that cable could act as a major catalyst for change—and new jobs—in British society. But it is only likely to fulfil this pro-● If more major companies put

their full financial and manag-erial weight behind it;
If telephony services for both business and the domestic con-sumer are added to entertainment from the outset;

ment from the ousse;

If new and imaginative methods are devised to get cable into homes in the first place.

"The most significant problem facing the industry is poor management." Breane believes. Christopher Goodall, a mem-

in a franchise area covering 100,000 homes and with an average number of businesses the telephony revenues could be £24m a year at 50 per cent cable penetration—of which the cable operators would keep around £3.5m.

Revenues from entertainmentonly systems would be between 27m-29m a year at 50 per cent penetration, McKinsey believes.

"We are talking about tele-phony adding 40-45 per cent to the total revenues of systems. But the incremental costs con-nected with offering it are not that substantial," suggests stragests Goodall.

Instead of never breaking even on a cumulative cash flow basis, breakeven could occur in 1994, maintains Goodall, although he emphasises that pre-

... the addition of telephony through Mercury Communications will dramatically change the sums. Without telephony it looks as though entertainment-only cable TV is uneconomic. ?

ber of the DICE group and formerly of Rothschilds, the merchant bank, adds. "The new industry's chances of success depend on the extent to which companies are prepared to give it a whole-hearted managerial commitment as well as investment commitment.

Those putting a wholehearted effort into it lack the necessary experience and those who have the experience are only dipping their toes in," he

The DICE team believes that the more successful the early franchises are the greater the prospects for long term success of cable. It will only take one cable channel to do badly

Goodall believes that the addition of telephony services through Mercury Communications, the private sector com-petitor to BT, will dramatically change the sums. "Without telephony it looks to us as cable TV service is uneconomic," he says.

cise forecasts are not possible. The provision of telephony also has major implications for the way cable is marketed. " Instead of selling cable as more entertainment, and in effect a luxury item which is therefore discretionary, it should be pos-sible to market cable as a communications vehicle that is much more functional, really in of it as the basis for a whole set of interactive services," Breene

The DICE group believes that U.S. methods of selling—such as with door-to-door salesmenare unlikely to be successful in the UK. Breene believes that cable operators should adopt a cut-price policy initially to get cable television into different streets and then rely on "rad-iating references" between iating references and neighbours to spread it.

Half price for the first year might even be justified, he be to in the short term and have lieves. "This is a case where not announced their intentions overkill in the initial years yet."

The DICE team believes that radically changes the cash adds that the even larger initial investment necessary would be hard for the cable companies to

contemplate.

McKinsey also suspents that
the plans of most cable operators to market their services in tiers of channels at different prices as is done in the U.S.

There was a danger that after initial enthusiasm consumers might trade down to a basic minimum number of channels. Operators should think seriously of creating one single package, including all channels, for a set

price. "One of the beauties of bundling particularly when combined with penetration pricing is that it makes any decision to disconnect an either/or decision," maintains Breene. He believes that once cable is in a house some members of the family will like it and it will be much more difficult to decide whether to disconnect comwhether to disconnect com-pletely rather than cut out, say,

just the sports channel.

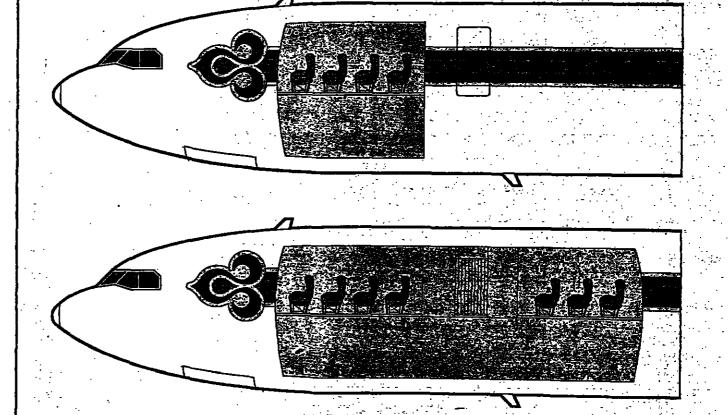
McKinsey believes a national marketing organisation should to discover the most effective methods of packaging and sell-ing cable television in the UK. ing cable television in the UK.
Although the risks may be great, McKinsey believes that in an era of deregulation early participation in the new market seems to be important for eventual success. McKinsey is following its own advice and taking part in the hope of helping to create a new consultancy ing to create a new consultancy market for itself both by encour-

aging participation and warning of pitfalls. "It would only take half a dozen major companies co-operating where appropriate and then I think the industry is more likely to succeed," says

Breene gives an even more optimistic bint of the future. We are aware of quite a number of major players who are speculatively considering whether or not cable is some-thing they should be responding to in the short term and have

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In fact, Royal Executive Class has proven to be so popular we've had to enlarge it.

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These intense feelings of a past world are so effectively realised in the exhibition English Romanesque Art 1066-1200 that it is possible to be transported in time and place and see the art of that period with new understanding.

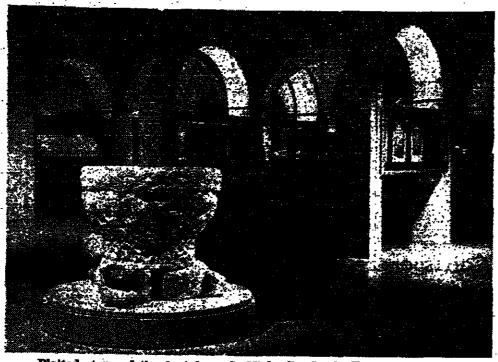
This is a large exhibition that occupies the whole of the Hayward Gallery in London where it will run until July 8. It is quite magnificent in every way, and the Arts Council with its advisers, particularly Professor George Zarnecki, deserve to be crowned with langels. crowned with laurels.

It is such a success because it is based on an important idea, not just to collect as many of the artefacts of the period and put them under one roof, but to explore the concept that the art and architecture of this country developed after the Norman Conquest as a fusion of Roman developed after the Norman Conquest as a fusion of Roman-esque and Anglo-Saxon ideas and produced something quint-essentially English.

To put flesh on the bones of this idea has not been an easy task. The dissolution of the monasteries and the iconcelation activities of the Puritans destroyed vast quantities of medieval art treasures. What we have as a record of those times to appropriate the second of the sec times is fragmentary. What we have at the Hayward is as complete and comprehensive a gathering of those fragments as

any of us will see in a lifetime. Objects alone do not evoke a operis alone do not evoke a period, they need a framework. The designer of this glorious evocation's context is Paul Williams. He is a hero who has conquered the confoundedness of the Hayward Gallery and made the place work. He has done it by utilising the qualities Architecture **Colin Amery** 

1066 and all that



Plaited stone of the font from St Michael's, Castle Frome, circa 1140, and a glimpse of the vaulted treasury at the Hayward Gallery

of its architecture that express a solidity and magnificence of mass, and at three points in the exhibition succeeded in achiev-ing effects in the design that are

On entering the gallery you face a large dark space crossed by a long arcade of rounded arches. Through the centre arch a vista opens across the concrete ramps towards a giant photograph of the solid piers of the nave of Durham Cathedral. The pilgrimage has begun.

The two other brilliant effects are a long view down a flight of steps that lures you into the third triumph, a vaulted treasury for the display of some of the most precious items. I should most precious items. I should also mention a particularly moving experience of a quieter kind. On the top floor four stone sculptured figures face an empty lectern. Reflected in a mirror behind it are the illuminated pages of sacred manuscripts glioting with gold. For a moment the power of Falth that fired

I felt, in the Hayward, that the organisers and the designer, faced with the difficulty of dis-playing fragments of stone, manuscripts, ivories, metal-work, stained glass, textiles, seals and coins—decided to assemble them in such a way that they illuminate the spread of decorative and architectural ideas from one medium to another. An ivory crosier is placed near a capital and the intricacy of the carving of one

is reflected in the enlargement of the motifs in the other. It is possible to absorb gradually and with intense pleasure the development of the decorative complexities of early Scandinavian influenced inter-woven beasts and ribbons and see the cooler Continental influences pervading the

kingdom, Paul Williams has an inspired fragments of sculpture and capitals in a way that makes them architecturally compre-hensible. The exhibition design -for example the display of the stained glass from York and Canterbury — emphasises the scale of the settings that the Normans made for their smaller scale treasures.

scale treasures.

Tall stone shafts and articulation of the grand walls of the cathedrals of Lincoln, Winchester, Durham and Gloucester can only be hinted at in a gallery. Here the triumphs of the masons, who cut the chevrons and the beasts and understood the total geometry of a gigantic cathedral long before the use of full scale drawings, is staggeringly impressive.

to the staggeringly impressive.

To fully understand the glories of the Romanesque it is essential to visit cathedrals and essential to visit cathedrals and the smaller churches, like Kil-peck in Herefordshire and Kempley (for its wall paintings) and the Temple Church in Lon-don where the turning to the Gothic can be seen amongst the Romanesque features. The designer has suggested the magnificence and scale of

the magnificence and scale of the Romanesque architecture but it has to be remembered that our picture is a partial one. Colour was a vital part of the interiors and sculptures and walls were brightly painted. The Hayward show is sober, solemn and rich. It fires the visitor to go and see the architecture for himself but it does so by, first of all, firing his artistic imagina-tion. Do not miss this exhibi-tion—it is an inspiring triumph.

### Der Rosenkavalier/Coliseum

### Max Loppert

stow, an opera performer guaranteed tto raise things to understanding of Romanesque architecture. He uses its elements in the display mobifusively and elevates the Sally Burgess returns to Strauss Sally Burgess returns to Strauss duties in excellent form; Octavian is probably her best Coliseum role, for though some of vitality. Miss Barstow was higher notes still expose an occasional rawness, Miss Burgess's warm middle voice, her gift of quick, accurate, passionate characterisation, and her intuition for limning the soul of each

The new Sophie, Anne Daw-

sel, though; a fullness of tone at wonderfully versatile soprano the lower end, where the can accomplish the vocal

company has assembled one of scenes Miss Barstow was the most remarkable female already superbly grand, alike in trios in the production's life-span, a trio assorted with a skill In this performance the trio that affords the opera's velvet-was not just a swoon of luscious ate characterisation, and her beautiful way of shaping English words join to fulfil almost all of the role's requirements to admiration.

intuition for limning the shape intuition for limning the shape and divining the soul of each new character. It is a reading of the role at the opposite pole from such dignified, ample Eno Marschallins as Ava June and Lois McDonall; fears, resentments, memories gay and

The latest English National figurine Sophies tend to evaporOpera Rosenkavalier is interesting as a whole. That is perhaps bearing of a formidable matron
a pale epithet for the first in the offing, are two of the perMarschallin of Josephine Barformance's individual attractions

The latest English National figurine Sophies tend to evaporwriting at a lesser rate of
tension than was evident in the
opening stages of Act 1; later,
the singing began to acquire
much of needed light and shade, the ability to glance points of For the revival, indeed, the words, and in the opera's final sound: it made real, and climactic, sense.

Any Rosenkavalier with this much in its favour is worth visiting. But there are also weaknesses that deny the whole the level of its best pars. Dennis Wicks is the Ochs — long familiar, expert in routine, but now rather sere and savouriess. In Keith Warner's not quite complete rehearsal of the John Corley Production which of the The new Sophie, Anne Dawson, who came to notice at the son, who came to notice at the Royal Northern College (and more recently on the records of Boughton's Immortal Hour), takes here a first big leap toward future stardom. This was Straussian ravishment of authentic kind—the silvery high soprano floated out at ease in long legato phrases dewy with wonderment, the top lines of duet and trio refreshed with that special artlessness that is full of concealed artistry. Miss Dawson is no spun-sugar morsel, though; a fullness of tone at Copley production, much of the comedy has lost its precision of have needed more rehearsal time.

### Romeo and Juliet/Covent Garden

### Clement Crisp

Romeo and Juliet has returned attractively a young girl in the every moment. Romeo and to the Opera House repertory opening scenes, and distractedly Juliet is in danger of becoming this season with some apparent a young women trapped by her a "classic" to be performed refurbishing of costumes for the own wilfulness in the third act, with the decorum and deadly principals and I would hazard. She is touching, delicate in some revised lighting: the dark Julier's uncertainties at the ball scenes appear darker, and as she stands with Paris routine air (Stephen Sherriff's Juliet on her bier is now caught (Michael Crookes, new to the Benyolio a brightly danced, Juliet on her bier is now caught (Michael Crookes, new to the Benvolio a brightly danced, in a blazing shaft of light as if role) and tries to reconcile good brightly felt exception), while the Capulet vault were getting manners with her sudden obsest the stabbing of Paris in the

danced interpretations reflected this only intermittently.

Miss Chadwick, with her pure, strong dancing — lovely in its security as in its clarity — sails through the role's demands, mour and Gable first imbued on Saturday.

the Capulet vault were getting manners with her sudden obsested for the pantomime season. On Saturaday afternoon, when part of the bedroom duet, with Fiona Chadwick made her debut as Juliet, the score under Juliet's physical passion for Romeo spoke with authentic moments of dramatic tension and freshened orchestral balance—not since Yury Ahronovich's electrifying personomiches a few years ago has Prokofiev's emotional purpose Romeo, he, too, seems to bank decades we may perhaps not expect that first fine careless ebullient Mercutio. After two decades we may perhaps not expect that first fine careless

rapture, but if Romeo is to retain its importance in the repertory it needs far bolder, braver playing than it received

rectitude of Swan Lake.
The secondary roles have a

# On the Freudian slopes of Eugene O'Neill

O'Neill's Interlude was produced in 1928 by the Theatre Guild in New York, the playwright's great champion George Jean Nathan pronounced it his finest work. A 1963 Actors Studio revival found intellectual critics dubbing it the worst play ever written by a major dramatist. The drama is in nine acts and plays at the Duke of York's for five hours with two

You simply must not miss it. Not because the play is a masterpiece (it is not), nor because of its curiosity value as the piece of stage fiction that did most to popularise Freud in America, nor because it was the most celebrated play of the 1920s, nor merely because Alexander Woolcott lost a job on Vanity Fair by denouncing

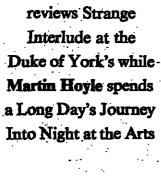
You must see this production for the performance at its centre by Glenda Jackson as Nina Leeds (what a name!), the daughter of a New England professor who loses her lover in the First War and surrounds herself with a collection of unsatisfactory substitutes in pursuit of both self-fulfilment and a maternal role. But above all you must see this production for its all-round excellence of for its an-round extended to the tactful ingenuity deployed in solving one of the most fascinating problems in the

modern theatre. orporately, musically, beauti-On'Neill had been experi-fully, sensitively. on Neill had been experimenting bravely throughout the In the case of Edward Petherworth tom-toms and bridge as the loyal Charles one he imagined, with little dividual attempt to escape can Expressionistic techniques, with masks, with rhythms and manners of speech. In Stronge which appears at first to cast what, no Second War?

Interlude he investigates the imaginet to cuit him attack. The November of Second War?

We Hack and finishes it in an aero-only bruise the others. O'Neill's starts the play in a circular following in the scape can dividual attempt to escape can only bruise the others. O'Neill's starts the play in a circular following in the scape can of circular following off in an aero-only bruise the others. O'Neill's starts the play in a circular following in the scape can only bruise the others. O'Neill's starts the play in a circular following in the scape can only bruise the others. O'Neill's starts the play in a circular following in the case of Edward Petherworth he knew and finishes it in a circular following off in an aero-only bruise the others. O'Neill's the play in a circular following in the case of Edward Petherworth he knew and finishes it in a circular following off in an aero-only bruise the others. O'Neill's starts the play in a circular following in the knew and finishes it in dividual attempt to except the lower following in the case of Edward Petherworth he knew and finishes it in dividual attempt to except the lower following in the case of Edward Petherworth he knew and finishes it in dividual attempt to closely bound that any individual a

London marathons: Michael Coveney reviews Strange Interlude at the Martin Hoyle spends



is felt and saying what is, in ousness of this portrait will fact, heard. Nina, we are told, surely mark it as one of Mr has seen the lies behind the Petherbridge's very finest. sounds called words. Where O'Neill's rather marries a dullard in order to laboured technique might have have the child she owes the proved an insuperable obstacle, dead lover. When pregnant the director Keith Hack and his she is told by her mother-in-law cast turn it to positive advant-age, eliding the inner and outer thoughs, as it were, in a distinct

ners of speech. In Strange which appears at first to cast What, no Second War?

Interlude he investigates the plausibility of energising the interior monologue, of showing a character at the split moment of ambiguity between saying what his doom. The elegant cadaverbox. There is a solid library, appears and ginit are approach succeeds even with the part that the second War?

What, no Second War?

War Hack and his director, a plane in these shifting the part that the p



So what happens? Nina rather marries a dullard in order to it have have the child she owes the (a spectral, fascinating cameo from Sheila Burrell) that there cast usen it to positive advantage, eliding the inner and outer thoughts, as it were, in a distinct style of presentation. Here is has an abortion, She has a child no whispering behind hands or confidential downstage shuffling of feet. The play is treated corporately, musically, beautifully, sensitively.

In the case of Edward Pether—

(a spectral, fascinating cameo from Shelia Burrell) that there is insanity in the family. Mina Ludovica Villar-Hauser's production of Long Day's Journey into Night is a labour of love. A convincing family feeling permeates the bristling, snarling and occasional savaging of the O'Neill starts the play in a closely bound that any in-

ouspess of this portrait will

which flies off to fix the charac-ters in a mythic void of Americana, like figures in a Hopper painting. In the middle section, Nina, her husband and Charles the best friend are pinioned in three wonderful period armchairs. With the leap in time Mice Leckson is traceperiod armchairs. With the leap in time, Miss Jackson is transformed with a mauve turban and dark glasses into a likeness of Ava Gardner, and the rather strange, brittle quality of O'Neill's imagined milieu as young Gordon takes part in a Long Island boat race, is given full surreal rein, with bunting and blazers and ugly raucous cheering which culminates in Nina's husband's (James Johnson to play for laughs —

With Brian Cox as the doctor, she breaks through the objective soliloguy device—as much each character's invention as the playwright's to acknow-ledge her passion. I must give an inadequate nod towards Mr Cox: he has done nothing better than this for ages. This is, in short, the most fascinating, unusual and remarkable show in London.

The Janacek cycle shared between Welsh National and Scottish Operas, began in 1975

with Jenufa, produced by David Pountney. WNO revived

it in Cardiff last month and as usual has been quick to take it on tour, reaching Birmingham on Wednesday, conducted by

This is anything but a routine revival. The cast is entirely new, and Pountney has taken the opportunity to revise

his approach in several crucial aspects. No doubt he was

partly influenced in this by the

decision to use the original

version to use the original version of the score as pre-pared by Charles Mackerras for his recent recording. These are the first stage performances in which Janacek's intentions

have been followed faithfully:

quarter of an hour later than

have been understandable in the

strode forward to address her

public. Add a technical hitch that prolonged the interval, and the ratio of waiting-time to

music began to recall an even more august institution in the

Richard Armstrong.

into melodrama or buck its rider into bathos. Darlene Johnson's gracious and laughing Mary, for instance, eyes occasionally clouded by worry, initially depicts both mother and well-bred faded beauty perfectly, her vivacity turning chillingly in county practice. Else-

full surreal rein, with bunting and blazers and ugly raucous cheering which culminates in solution, tempt Miss Nina's husband's (James Hazeldine) eventually fatal dangerously, for audience mirth at lines like "Yes, you were one of her greatest, emotionally and intellectually fascinating. Addams comic Gothic.

Allan Poe (a bedraggled hair-style reflects little credit on Keith of Smiles), Sean Mathias intelligently uses lightness of touch to show how quick bright things come to confusion. The bitter observation on his dopefiend mother evokes laughter: an achievement in the

The matinee idol's "famous beautiful voice" has frogged; but Trevor Martin's James convinces as the self-made man whose near-pathological fear of poverty explains his monstrous meanness; and the last act's revelatory monologues find Mr Martin at his best.

Michael Deacon suffers from the late placing of Jamie's long act, but his thoughtful approach succeeds even with those elements of the part that have become dramatic cliches.
The perfunctory gentility of—
only just—well-to-do temporary
accommodation is accurately

previously opera companies have had to rely upon the edition of Jenuja prepared in 1916 by the conductor Karel Kovarovic which "improved"

the composer's orchestration.

made many minor cuts to tighten the action and pro-vided an ending more conven-tionally theatrical than the

original bald, downbeat close.

As anyone who has heard the Decca records would expect, the experience of bearing all the

excisions opened out, the orchestral sound purged of its late romantic veneer and returned

to pungent muscularity would be ample justification alone for the enterprise. But WNO have

### ECO/Elizabeth Hall

### **David Murray**

Conducted by Michael Tilson
Thomas, the English Chamber
Orchestra was in particularly
bright — even nervy — form
on Friday for Mozart and Ravel.
The manic note extended beyond the works chosen for the guest virtuoso Konstanty
the guest virtuoso Konstanty
Kulka Mozart's K 218 Violin
Thomas, the English Chamber
trust; but Kulka carried the stons of the five original and thing off with confidence, and perfect plano duets prefaced by a fine sneer, and shamelessly a prelude and a "Danse du bold rubato in the pastiche rouet" (to lead up to the prick-ing of the ballet Princess's finger), and with new linking it's conventional in this piece fillers between them. None of that improves the original Suite. the guest virtuoso Konstanty Kulka, Mozart's K. 218 Violin to rely upon sul ponticello playing (with bow very near the but since Ravel's least sketches Kulka, Mozart's K. 218 Violin to rely upon sut ponnectio playconcerto in D and Ravel's ing (with bow very near the but since Ravel's least sketches bridge, making a corrosive for orchestra are worth heardifferent ways demand plenty of aggressive brio; even the purely orchestral pieces fairly crackled. Mr Tilson Thomas likes intensity in his music, and likes found instead a like found instead a lik draws it out with urgent gestures. The results were immediately compelling: in the 34th Symphony of Mozart, the

Allegro vivace was something quite out of the ordinary, though it sounded entirely mr Kulka could not have wanted more alert accompaniment in the Mozart Concerto (he might even have liked something tamer). He delivered the solo part with silvery tone and the proper elegance, as well as

Sir Geraint Evans will give of Wales. The evening is being his farewell performances at sponsored by HTV Ltd.
Covent Garden as Dulcamara in Donizetti's L'elisir d'amore in d'amore. Sir Geraint will give

matic plan. In Trigone not finally, on June 4 which will perform every fearful hurdle was taken be a gala farewell performance Peter G with equal success—some harin the presence of the Prince and 19.

the Poles more often.

Tilson Thomas gave us Ravel's that order, for he made it as plete ballet "version: that's to one could wish.

### Sir Geraint's goodbye

the production originally the last performances of his mounted for him by The Royal career with The Royal Opera opera in 1975.

the frank relish for the spot-Performances take place on in Los Angeles, where he will light which is part of the dra-May 15, 18, 23, 26, 29, 31 and sing Captain Balstrode in three performances of Britten's Peter Grimes on July 11, 16

# Arts Guide

Music/Monday. Opera and Ballet/Tuesday, Theatre/Wednesday, Exhibitions/Thursday. A selective guide to all the Arts appears each Friday.

### Music

### PARIS Katia Ricciarelli recital, Marcello Gu-

errini piano: Verdi, Bellini, Schu-bert, Faurė, Negro Spirituals. (Mon) Theatre de L'Athenèe (7426727) Interior de l'Albande (Problem de Contrelor Symphony Orchestra conducted by Charles Dutoit: Berlioz, Stravinsky. (Mon) Théâtre des Champs Elysées (723 4777) anglish Chamber Orchestra conducted

by Raymond Leppard, Emanuel Ax, Mozert, Schubert. (Mon) Salle Pleyel (561 0630) TOKYO

### Tokyo New Philhermonic Symphony Orchestra, conductor Seiji Ozawa: Beethoven, Stravinsky, Tokyo Bunka Kaikan. (Mon) (8282111)

**WEST GERMANY** Berlin Opera: a lieder recital with James King, piano Eberhard Adher: Peri, Schubert, Wagner, Strauss

(Tue)
Prankfurt, Aite Oper: gala concert
with the Frankfurt Opera Orchestra, conducted by Michael Gielen
with soloists Edith Mathis and Homero Francesch: Mozart, Haydn, Schumann, Liszt, Beethoven (Mon). Rudolf Buchbinder, piano: Beethov-

### LONDON

Scottish National Orchestra, conduc-tor Sir Alexander Gibson, two Po-gorelich piano: Weber, Chopin, Rachmaninov. Royal Festival Hall (Mon) (9283191)

# Royal Philharmonic Orchestra, conductor Moshe Atzmon, Cristina Ortiz pisno: Rossini, Handel, Rachmanlnov, Dvorak. Barbican Hall (Mon) (638 8891) Bournemouth Symphony Orchestra, conductor Rudolf Barshal, Yefim Bronfman, risno: Residue.

conductor runnin Barshal, Jehm Bronfman piano: Brahms pro-gramme. Barbican Hall (Tue) London Symphony Orchestra, conduc-tor Claudio Abbado, Shlomo Mintz, violin: Beethoven programme. Roy-ai Festival Hall (Tue) ondon Sinionietta and Voices, con-

ductor Lother Zagrosek: first performance of Lloyd's Mass for six voices and first British performance of an Ulrich Stranz work in an otherwise Kurt Weill programme. Queen Elizabeth Hall (Tue) (9283191)

### VIENNA

Tango Festival at Konzerthaus on Monday. (721211) Linder and Ariss: Michelle Berger, meziosoprano, Roberta Coming ham, soprano, Lucetta Marty, piano: Mozart, Brahms, Richard Strauss, Konzerthans Schubertsaal (Mon)

ted by Gary Bertini with Dmitri Sit-kovetsky, violin: Mozart, Mahler. Musikverein (Wed, Thur) (658 190)

Rome: Sibelius Violin Concerto in D minor (Violinist Silvia Markovici) and Brahms Symphony No 2 - con-ducted by Gianluigi Gelmetti (Sun, Mon, Toes): Auditorio di via della Concliazione. Teatro Olimpico (Ac-

### April 6-12 cademia Filarmonica Romana) Piazza Gentile da Fabbriano: pianist Alessandro de Luca playing Brahms, Schumann and Bartok.

### **NEW YORK**

New York Philharmonic (Avery Fisher Hail): Zubin Mehta conducting, Bri-gitte Engarer, piano: Haydn, Boulez, Tchaikovsky (Tue); Zubin Mehta conducting, Lorne Munroe cello: Carter, Bloch, Tchaikovsky (Thur). Lincoln Center (8742424)

Carnegie Hall: Randall Hodgkinson, piano: Beethoven, Copeland, Perie, Chopin, J. Stranss (Tue); Ivo Pogore-lich, piano: Bach, Chopin, Prokoffev (Thar) (2417450) Merkin Hall (Geodman House): Abel Carlevaro, guitar recital: Villa Lobos, Torroba (Mon): Berenice Bram-son, soprano recital: Britten, Wolf, Rachmaninov, Well, Bramson (Tue). 67th W. of Broadway (3628719)

### WASHINGTON

National Symphony (Concert Hall): Leonard Slatkin conducting, Yo-Yo Ma, cello: Rouse, Elgar, Franck (Toe, Wed, Thur). Kennedy Center

### CHICAGO

Chicago Symphony (Orchestra Hall): Sir George Solti conducting, Eunice Lee, violin: Berlioz Paganini, Chaikovsky (Thur). (4358122)

# Jenufa/Birmingham Hippodrome

### **Andrew Clements**

utterly surefooted and idiomatic handling of the score.

taut panache of the opening

In the new scheme of things the role of the step mother has been most radically revised. Her aria of self explanation and justification which cuts through ages them with great the dancing in the first act has and dramatic point. been restored (though Janacek himself had dropped it from his shinly to make dramatic points final version) more than compensating for its dramatic awktion; her stage presence is
wardness by the rounded depth
of character it affords to the
tion from the lithe, physical
rest of the opera. Miss Cannan
is now able to bring Kostelnicka
to believable life, avoiding
shrewish caricature and presentlously managed, leaving in her

and Helen Field's Jenufa, and daughter going the same way, words is perfectly audible, for underpinned by Mr Armstrong's She is still able to generate a she has the power to ride fierce climax in the second act but now carries an undertow of sympathy with it. Some of her lines in the English translation lie awkwardly across Janacek's phrases, and Miss Cannan man-ages them with great adroitness

gone much further and proing her as a woman deeply final duet with Laca a tantilising place of theatre, pivoted about marriage, ready to move heaven with the understatement of the power.

Phyllis Cannan's Kostelnicka and earth to prevent her foster closing music. Every one of her

she has the power to ride over the roughest orchestral textures. It is a thrilling portrayal, of endless fascination. Around these strong portraits

is assembled a finely drilled cast: a gauche, impetuous Laca from Paul Streathern (a late replacement) a flamboyant, callous Steva from Arthur Davies, a sombre Foreman from David Gwynne. As the grand-mother Menai Davies is a perfectly judged analogue to Kostelnicka; there is a finely observed pair of cameos from Kenneth Pugh and Anne Morgan as the Mayor and his wife. Mr Armstrong drives his orchestral players hard, but they respond with great reserves of tonal power. In all, a memorable

### Songs from the Front/Warehouse

### Martin Hoyle

Covent Garden area; though in fairness Elaine Loudon is Considering the show started advertised, aggressiveness might generous with her encores. audience rather than on the face of the star as she finally

With her broad-faced, roundcheeked vivacity she looks like a radicalised Katie Boyle. Backed various permutations of flute, saxophone, percussion and keyboards, her singing ranges from thinnish if distinct soubrette through full-throated balladry

ing degrees politically committed, concerned much with racialism and the arms race.

Her opening number draws parallels between sexuality and military armament. I took its forlorn, mutually comforting couple to symbolise President mutually - comforting Reagan and Mrs Thatcher, but

to her most effective weapon, hastily abandoned the idea in a gentler, haunting lyricism. punchy and pointed speech. Ms view of their subsequent activi-Loudon's songs are all to vary- ties. A restrained song about a bright and busy day suddenly
ended by silver missiles in the
Saunders, Richard Wolfsop and
sky finds her at her strongest,
David Adams were an excellent
heavifully hacked by Andr band No support are credited

Brecht's poem, "Easter Sunday, do) to be treated as a West End 1935" is highly attractive and theatre they should start with lave the spectre of Weill with the basics.

beautifully backed by Andy band. No authors are credited Saunders's flickering flute in the slip that does duly for a programme. If the Donmar accompaniment. a programme. If the Donmar Mr Saunder's setting of management want (I know they

### FINANCIALTIMES

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Monday April 9 1984

# Thatcher's Irish test

Ireland Forum—giving the views of the main Irish political parties on the future relation-ships between London and Dublin and between the republic and Ulster—is due to be published this week. Whatever the report says, there can be no doubt that the next move lies with Britain.

The British Government indeed is facing a fundamental choice—whether to continue a policy that has achieved at best policy that has achieved at best containment over the years and promises nothing better for the future, or whether to reassess the policy completely. The report of the forum should provide an opportunity for the

Preliminary leaks suggest that the report will contain a note of realism: a recognition that the economy of the South is no longer booming and that that of the North is decaying. There can be no question of the republic taking on Britain's role of economic lifeline to Ulster even if that were politically feasible, which it is not. It is also suggested that the southern politicians, as well as those of the mainly Catholic Social Democratic and Labour Party in the North, have concluded however reluctantly, that unification is out for the foreseeable future.

If so, that is a welcome development and it should form the basis on which British policy can be reviewed.

For the last decade, policy has consisted of seeking to contain the violence and enhance security, the occasional attempt at restoring some form of devolved government and the odd summit meeting with Dublin. It has got nowhere. Meanwhile, the Provisional IRA has advanced to the point where it has become a potent political as well as military force, contesting elections as well as planting bombs. It has become more of a threat to the stability of the South than it ever was to Britain.

Policy has also been conducted with a passivity bordering on carelessness. At no stage has the Irish question been at the top of the British political agenda. That has to

There should be two starting there can be no question of British withdrawal from Ulster something resembling must be fully accepted by the were to walk away.

leading political parties in the republic and their leaders.
The reason is that there can be no chance of substantially improving relations between North and South until there is first an improvement in relafirst an improvement in rela-tions between the two communi-ties in the North. It is in the interests of the republic to acknowledge that fact. It means yet more co-operation with the British on security. It means encouraging the SDLP to take its place in the Northern Ireland Assembly so that there can be some possibility of devolved government. Above all, it means a public commit-ment by Britain and Ireland to work together to resolve present problems. Future prob-lems, such as the relationship between North and South, can be dealt with only when the

### Unification For the Irish politicians that

North is at peace.

will involve firmly turning their backs on the IRA and an abandonment of that policy of silent complicity with its activities which is so often close to the surface of Irish politics. It will mean admitting that unification is at best a hope for the future is at best a hope for the future rather than a present aspiration. There are tasks for the British too. Security policy has not always seemed as evenhanded as it might be. It is necessary to stand up to the thugs among the Loyalists as well as the IRA. It may be necessary to call the bluff of some of the more extreme some of the more extreme Loyalist politicians who talk nonchalantly about an inde-pendent Ulster and days of action. The Conservative Party will have to be ready to take on Mr Enoch Powell and some of the Loyalists in its own ranks who constantly snipe at Mr James Prior, the Secretary of State. The aim must be to be seen to be offering a fair deal to the minority community. Yet, perhaps the biggest test of all lies at home. Is the Prime

Minister willing to take it on? Mr Prior would be normally coming to the end of his time. given the mental and physical strain that his job involves. He strain that his job involves. He remains the best man for the task, though Mr Michael Heseltine would be a possibility. Whoever is Secretary of State, however, can only move on to new policies if the Prime Minister is fully habind him. ster is fully behind him.

Mrs Thatcher has to decide

points once the forum report in the next few weeks whether is published. The first is that to make the Irish question a there can be no question of priority and to attach her personal authority to the search peaceful conditions is restored. She could do it magnificently. The second is that that point It would be a tragedy if she

Stock Exchange relaxes

NEW PHASE begins today in the London

securities market as the outlines of what life could

be like in the future for British stockbroking

British stockbroking an market making firms tak

shape. This morning London securities firms take the first steps in developing structures which will allow them to compete internationally with powerful overseas rivals.

Some of London's largest stockbroking firms and influen-

tial market makers or stockjobbers are starting the opera-tion of new international dealing companies as tight controls on

trading in overseas securities imposed by the Stock Exchange on the market's firms are relaxed.

At the same time commis-sions on transactions carried

out on deals in overseas securi-ties will no longer be fixed in

relation to a minimum commis-sion scale imposed by the Stock Exchange. This could offer better deals to the large

Until now, institutions have found trading overseas through British securities firms

through British securities firms extremely cumbersome. Big American investment houses and Japanese securities firms with integrated services have been able to offer a faster and more efficient service. Today's reforms are designed to redress the balance in favour of the UK brokers and jobbers—but the changes are only a first step towards putting them on an equal footing.

These changes coincide with

These changes coincide with a major upheaval in the London

stock market brought about by an agreement last summer be-

tween Sir Nicholas Goodison, the

Stock Exchange chairman and

Mr Cecil Parkinson, then Trade and Industry Secretary.

The Stock Exchange agreed

to implement reforms which would allow greater participa-

tion by outsiders in its regula-tion and the dismantling of its

minimum scales of commissions on securities transactions by the

end of 1986. In return, the Government agreed to exempt the Stock Exchange from the

effects of restrictive practices legislation. Protracted litiga-

tion between the Stock Ex-change and the Office of Fair

Trading was brought to a halt.

The agreement will mean a much more competitive environment in the London market

with greatly increased participa-tion by foreign financial groups.

However, the plans for inter-national dealerships were under consideration before the

momentous developments of

Impetus from

relaxation of

consideration

last summer.

exchange controls

overseas trading rules

# The fight to win back foreign **business**

John Moore, City Correspondent, reports on today's important move in reshaping the London markets: the launch of international dealerships

compared with its investments changes but with the ultimate in UK equities of £2.47bn, customer for a foreign stock.

"All of that overseas in This will ensure a more flexible vestment was being direc-ted straight into the

hands of the likes of Merrill Lynch, where the research, local knowledge, and flexibility to deal, gave them the edge," said one Stock Exchange official. This concentrated the Stock Exchange's collective mind. The rules for dealing in international securities have been relaxed gradually by the Stock Exchange in the past few years, but until now the way in which brokers and jobbers could transact large amounts of business in overseas securities was through rule 60 of the Stock

Under this rule, the Stock Exchange permitted companies to be created by its member firms which could then compete on equal terms with local securities firms in overseas markets. The rule 60 company is a member of a foreign stock exchange or trading associa-tion—not the London one and follows the rules of those

The rule 60 broker company is In the early 1970s it was recognised that Stock Exchange allowed to act as both principal and agent in the overseas market when acting for a firms needed a set of rules which allowed them to take foreign client. But when acting for a British one, he can only more advantage of foreign for a British one, he can only business, which was drifting act as agent, passing on orders away from London firms to to other market makers. The international securities houses present system also means that with London offices, which London jobbers cannot have offered a more flexible service. The debate sained freek international clients wishing to institutional The debate gained fresh impe-tus once exchange controls clients wishing to trade in over-seas shares.

This produced a sharp rise much of this. Firstly, the interin institutional interest in national dealerships will be investing overseas. In 1978 members of the London stock

The new system changes

priusn equities stood at £1.92bn and investment in overseas will be allowed to act as prinequities at £459m. By 1982 cipals and jobbers will have the institutional investment overseas had climbed to £2.92bn members of overseas stook Cecil Parkinson, the fermer Trade and Industry Secretary

service.
However, the Stock Exchange has baulked at a total liberalisation of the system, which would involve breaking down the present barriers in London between principals, who are able to take on stocks on their books, and agents (or brokers) acting for clients. International dealers will not be able to play

The fusion of both the role of principal and agency workknown as "dual capacity"— bothered the Stock Exchange as it feared that potential conflicts of interest would be created. Since then, however, the Stock Exchange has become resigned bers can hold up to 49 per cent to the fact that the separation of the shares. of the two functions-known as

single capacity—cannot be have set up or announced inten-maintained in the more com-tions to start international



Sir Nicholas Goodison,

mercial environment it faces as a result of reform.

As a result, a considerable has a result, a considerable lobby is now building up among members to allow the international dealerships to act as both principal and agent. "It is important for an international the motions of forming an international dealing mechdealer to operate in a dual capa-city way and compete with rivals. I hope that the council will see that it is not necessary

now to maintain single capacity," said Mr Stephen Raven of Akroyd and Smithers, one of International dealing con panies are incorporated with limited liability as subsidiaries lations stunt," a stockbroker remarked sourly.
"I think the international of member firms. A minimum capital of £500,000 is required and non-Stock Exchange mem-

The dealing room at Akroyd & Smithers

Among those firms which



dealerships are Cazenove, Hoare Govett, Grieveson Grant, Wil-liams de Broe Hill Chaplin, Quilter Goodison, Bisgood Bishop, Smith Bros, Kitcat and Aitken and W. Greenwell. Some firms are going through

snism without any conviction that it will serve much purpose. will see that it is not necessary now to maintain single capacity," said Mr Stephen Raven of Akroyd and Smithers, one of securities industry has to hether leading London stock come fully integrated in the inhers. services that it offers, the whole thing is an irrelevancy. It is nothing more than a public re-

> dealerships have a limited life their present concept," erved Mr Raven of Akroyd & Smithers. "You have to remember that the dealerships remember that the dealerships began to come on stream before we had any idea that we would be exempt from the restrictive practices legislation." Eyen so, a significant number of firms are determined to

because they already had off- road," said another jobber.

capacity. It will prove an ideal the move can achieve its objective of winning business away capacity system and methods." from competitors at a time Hoare Govett is forming its when the Stock Exchange rules international dealership with

out the direct participation of Security Pacific, the U.S. bank, which has a 29.9 per cent stake in the brokers. The subsidiary will be 100 per cent owned by

Hoare Govett Cazenove, with a reputation
-as the City's most aristocratic
broker, raised its profile
recently with the announcement of an international dealer-ship but again without any outside involvement. "We do value our independence. If we did bring anyone into the inter-national dealership it would

compromise our independence and freedom of action in the foture. We could see positive conflicts of interest if there were outside involvement.

observed senior partner Mr
John Kemp-Welch recently.
Like other firms starting out
in a modest way in the first
instance, Cazenove is to concentrate on linking up buyers

centrate on linking up buyers of overseas securities and sellers in matched deals, a route which requires limited capital compared with a market making role.

At Akroyd & Smithers, the stockjobber, the plans are more ambitious. Mercury Securities, the parent company of merchant bank. S. G. Warburg, has taken a 29.9 per cent stake in Akroyd, and Akroyd shortly after formed a link with Rowe & Fitman, the stockbroker. The latter partnership is designed to develop an international dealing joint venture in which both parties would contribute a combined £17m worth of capital.

would contribute a combined film worth of capital.

"This will not go live until October 1." said Mr Raven,
"when we have new office space and our telephone communications system is in place. But to take advantage of the new rules we have decided to form rules we have decided to form a new company 100 per cent owned by Akroyd as a shorterm measure and that will go live on April 30. All dealing in overseas securities will be transferred to the new company."

At Strauss Turnbull, in which Hambres Bank has just acquired a 20.9 per cent stake, a three-way link-up between Strauss, Societe Generale, and Hambres has been created for

We'll let other people make the mistakes'

an international dealership with £10m of capital. Strauss Turn-bull says it is "not in a hurry. We won't go live with the inter-national dealing company until early autumn. We will let the other people make the mis-takes."

What will it mean for the institutional client? "If I had e client who wanted to dispose of 150,000 Western Mining shares and I could place only 100,000 I would be able to take 50,000 of the stock I couldn't of firms are determined to exploit the present opportunities. "You cannot afford not to be doing what the Stock in the past the 50,000 shares to be doing what the Stock in the past the 50,000 shares the broker at Grieveson Grant responsible for running his international dealing suffirm's international dealing suffirm's still an enormous stilling job to be done with the institutional dealing substitutional dealing substitutions to win back some of the business lost to the Americans. All firms are believed that none of the major services to clients in London. believed that none of the major services to clients in London firms would form subsidiaries "We have got to get out on the In spite of that initial allow securities firms in London reaction, the firm says: "It is to prepare themselves for dual essential to take advantage of capacity and the arrival of full international dealership in negotiated commissions. The London which will lead to dual immediate question is whether

# Patent licensing and competition

OF ALL the countries forming for legislation provided that the the European Community, the drafters are willing to listen UK probably has most to lose and make a few more adjustby a legal regime hostile to the commercialisation of innovation and industrial developments by means of patent licensing. The export of British trouvhour makes an important know-how makes an important contribution to the country's invisible earnings. Unfortunately, the competition rules of the Community, or more pre-cisely their application by the European Commission, are inspired by a fear that every form of co-operation is potentially anti-competitive. Almost every licensing agreement of some importance is caught by the mesh of the EEC competi-tion rules and has to be noti-fied to the Commission with a request for clearance or exemp-

As none of the other member countries matches British in-volvement in the export of technology, the Commission was unprepared for the avalanche of notifications which descended on Brussels after the UK's accession. Twelve years later, it is still unable to cope with a backlog of some 3,000 notifications. A regulation which would exempt all licensing agreements satisfying certain specified con-ditions was the obvious solution from the beginning. The Commission drafted one in 1976, but it did not meet the needs of industry and was widely regarded as inedaquate. The British Government de-clared that the regulation would make things even worse, and blocked the project

### Unrealistic

However, the Commission has never given up the idea com-pletely and the draft which it has now produced—but not yet officially published—is an improvement. It has dropped the most objectionable conditions which would have limited the exemption in territories with fewer than 100m inhabitants to five years at the most and excluded from their benefit companies belonging to groups with an annual turnover of more than £550m. The new proposal seems to provide a good basis dustry.

drafters are willing to listen and make a few more adjustments necessitated by the realities of business.

realities of business.

It is unrealistic to insist, as the Commission does, that royalties on know-how licensed in connection with a patent must not be required after the patent has expired or has been invalidated. This would remove any incentive to license patents which only have a chort time to any incentive to incense patents which only have a short time to live, or which can only be defended by the patent owner by the expenditure of vast amounts of money. The second weakness of the proposal is that it does not allow for appreciation. it does not allow for protection against parallel imports in the initial period—say five years—during which the licensee tries to establish production and break even: The need for this is not only pleaded by business men but is also recognised by judges in competition disputes.

### Escape clause

The Commission offers an accelerated procedure for dealing within six months with notifications of licensing agreements which, although not satisfying the conditions of the block exemption completely, come near to it. Such vagueness is bound to lead to con-fusion, and there seems to be no reason why the Commission should not apply the accelerated procedure to all notified licensing agreements.

It should also remove the threat of invalidation of the exemption by a single refusal to supply within the licensee's territory and by cross-licensing, which is often the only possible value of the draft is also much reduced by its general escape clause which would enable the Commission to withdraw the benefit of the block exemption whenever it thinks that an agreement, though satisfying the requirements of the regulation, has "effects which are incompatible with the EEC com-petition rules." In short, the Commission, which always asks industry to trust it, should also show a minimum of trust to in-

**Newbigging joins** MacGregor team

were relaxed in 1979.

An unexpected change in careers for David Newbigging at the ripe young age of 50 might be described as: out of the quick frying pan and into the

He served for 30 years in Hong Kong with the trading group Jardine Matheson, be-came chairman (or taipan) in 1971, and was finally ousted by Simon Keswick last year after a battle with the Keswick clan. Today he joins another chairman under pressure. He be-comes a part-time member of Ian MacGregor's National Coal Board in London.

As one of the five part-time members of the board he will serve for three years initially but his term could be re-

MacGregor has considerable respect for the role of part-time, non-executive board members. As a part-time member of the BL board he exerted personal influence in the late 1970s upon the stand by the management of the car group against union

militancy.

Newbigging is seen as a welcome reinforcement to the stern MacGregor line during



"If you must know I get the lying about my age"

### **Men and Matters**

partment

current NCR board-room discussions on the miners' strike. Newbigging was bose in China and joined Jardines in

1954. Although he left the "princely Hong" as Jardines is known in Hong Kong, before he was 50 he was already one of the company's longest-serving

Coal mining will not be his only concern in London. He has been made a non-executive director of Provincial Insurence from April 25, and is also to join the board of Provincial Join the board of Provincial
Life Assurance Company. He
is a member of the International council of Morgan Guaranty Trust company, and he
recently rejoined the board of
Rennies Consolidated Holdings
of South Africa.

That South African job could cause friction between New-Arthur Scargill in view of the latter's implacable hostility towards any links with South

### Don't ring us . . .

I brought you the news last week of abortive attempts to establish a facsimile transmis-sion link between the Depart-ment of Trade and Industry and the FT.

Now a mole tells me of a further hiccup in Whitehall's efforts to put into practice the "modernise or fossilise" philosophy preached by information technology minister Kenneth Bayar Black Rugby iersey.

His department's press office, as well as lusting for an up-to-date facsimile machine, has also long pressured form. Thus it is that shock, anger, and bewilderment are mild words to describe current feeliong yearned for a modern push-button telephone system to replace its old-style dial phones. So high are feelings running A short while ago British that there is a move by players, Telecom was invited to send supporters, and some top Rugby round a salesman who offered officials to break away from the them just the thing—a small electronic key system bristling with advanced features. Smiles soon turned to frowns, game). however, after expert investiga-

The system could not be pressed into government service because it lacked the necessary British Telecom approval for use with the kind of apparatus installed elsewhere in the deparatment But the International Rugby

The whole matter is, as they say, currently under review.

### Sweet revenge Red faces on the London sugar

market-one of the brokers, Woodhouse Drake Kay made a mistake and included a highly confidential telex from its New York office with its routine market report circulated to clients and competitors.

Their man in New York was in good, racy form. He not only supplied colourful comments on the company's strategy and dealings in world sugar; he also had some pungent comments on others involved.

One competitor, he said was "hoping to nail us to the wall" Another he referred to as "these vultures." But perhaps the vultures. But perhaps the biggest gaffe was to describe representatives from a leading representatives from a learning sugar exporting nation in un-flattering terms, Competitors are gleefully passing on the remarks.

In New Zealand Rugby football is a religion, and its gods are the tough men who wear the All Black Rugby jersey.

ings among a large body of New Zealand players and supporters. So high are feelings running International Rugby Board (a cabal of eight nations which determines the rules of the

As cynics may have already concluded, money rather than

the game is at the bottom of the

Stuart Wilson, aged 29, last season's All Black captain, and already a folk hero as a wing threequarter of legendary ability, has written a book. None of the Rugby afficionados has read the work yet: it has not even been published.

Board has flatly rejected a call from New Zealand to lift the ban on book royalty payments so that the national hero can enjoy the fruits of his literary labours. Wilson has amounced his retiremment from the game and believes he is entitled to accept the proceeds of the book. But the rules are explicit that lie will lose his amateur status if

The move to quit the board is backed by the expectation that: New Zealand would continue to have plenty of Rugby friends. In the club hars they are com-forting themselves by saying that South Africa and Australia would almost certainly continue playing with the All Blacks.

### Sky high

Can a mere mortal comprehend the enormity of the U.S. national

LHW Futures of London has passed on some figures worked out by the American Bankers' Association which strive to put the matter into perspective. By next year the debt, if stacked up in paper money, would comprise a pile of \$1,000 bills stretching 120 miles: into

And the bankers add that by the and of President Reagan's first term the debt added under his administration will have exceeded the cumulative debt of all previous presidents.

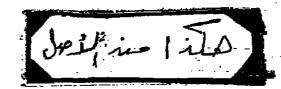
Now that's style . . .

### Mean time

Did you hear about the Andorran odd job man who was asked what his average weakly income was? "I couldn't say," he replied, "the average varies

Observer





# A Swedish power battle

By Kevin Done, Nordic Correspondent, in Stockholm

again around the heavens of Swedish industry. An intricate power game is being played for control and influence at Volvo, the Wordie region's hierost power game is being played for control and influence at Volvo, the Nordic region's biggest industrial corporation .

Much of the battle is taking place behind the closed doors of the boardrooms of some of the country's major corporations and banks, but the sounds of the fray are reaching the outside world.

to be coming under increasing threat as the so-called Wallen-berg group, of which S-E Banken is a part has bought aggressively into the company,

aggressively into the company, in the process putting together the largest single block of voting shares in the group.

The latest sign of this shifting power balance came a few days ago, when Mr Gyllenhammar, since last year both Volvo chairman and group chief executive suffered an unprecedented

dustrial statesman, rather than concentrating on running the affairs of Volvo. His handling of the heavily loss-making oil trading sub-sidiary, Scandinavian Trading Company, has come in for serious criticism—STC losses and provisions cost Volvo more than SKr tbn (£91m) last year Volvo had to pump in 760m in new capital to

keep it affoat. At the same time Mr Gyllenhammar has placed his own hardly fits securely.

prestige heavily on the line as leader of two groups of top leader of two groups of top European and Nordic business in many of the heights of

In a move to stalemate the In a move to stalemate the latest Wallenberg powerplay, Volvo has established a new alliance with the one major source of financial and industrial power in Sweden that is big enough in its own right to neutralise the influence of the Wallenberg federation, namely Skanska Cementgjuteriet. Skanska is the country's biggest Under the leadership of Mr Pehr Gylienhammar, Volvo has always prided itself on standing aloof and independent from the power constellations traditionally associated with the country's two major banks, Skandinaviska Enskilda Banken and Svenske Handelsbanken.

For several months, however, that independence has appeared to be coming under increasing threat as the so-called Wallen.

willing to exercise its muscle, as witnessed last year when it steam-rollered its way into control of Sandvik, the special steels and tools group, after becoming dissatisfied with the way the company's affairs were being conducted. The current battle for power around Volvo has arisen in the

roting shares in the group.

The latest sign of this shifting power balance came a few days ago, when Mr Gyllenhammar, since last year both Volvo chairman and group chief executive, suffered an unprecedented defeat at the hands of his own board, which vetoed his plans for a \$100m share issue in the U.S. in June.

Doubts are expressed privately in Swedish financial circles about Mr Gyllenhammar. privately in Swedish financial circles about Mr Gyllenhammar's ambitions to establish himself as a major public figure on the world stage and an industrial statesman, rather than concentrating on running the affairs of Voivo.

His bandling of the heavily mediary and counsellor to the social Democratic governments which ruled Sweden during the decades of its emergence as a modern industrial state. His relationship with the political administration was cordial but respectful and restrained, a far the same properties of the s cry from today's far more uncer-tain climate where relations between government and between government and industry have become heavily politicised, not least by issues such as the introduction of wage

earner funds. Mr Gyllenhammar has been more than ready to assume the mantle left by Marcus Wallenberg but it is clear that it





Volvo chairman Pehr Gyllenhammar (left), Marcus Wallenberg, the late Swedish industrial leader (centre) and his son, Feter, who now leads the Wallenberg enum

Swedish industry and banking, including S-E Banken, Saab-Scania, Ericsson, Atlas-Copco, Alfa-Laval, SKF, Asea, Stora Kopparberg and Electrolux. Many of the important shareholdings in these groups are held by two investment companies, Investor and Providentia—Mr. Peter Wallenberg, Marcus's son, is chairman of both—as well as by a number of allied trusts and pension funds. The same names turn up again and again on the scant of the Volvo investments, in 1982 Pehr Gyllenhammar became a full member of the board of S-E Banken, and also a member of the board of Atlas-Copco, a company where Peter hallenberg has spent much of his working life, since 1970 as chairman. Last year Mr Gyllenhammar also moved on to the board of Storakopparberg where hallenberg was already vice-chairman.

Initially there were stronger voting power of Volvo Ashares, "says one investment banker in Stockholm. "That must mean that at some time they want to wield power."

Most piquantly, the chairman ship of S-E Banken itself fell vacant as these share transactions developed. The main rival candidates were Pehr Gyllenhammar and Peter Wallenberg.

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Most piquantly, the chairman ship of S-E Banken itself fell vacant as these share transactions developed. The main rival candidates were Pehr Gyllenhammar and Peter Wallenberg.

Each lacked the overwhelm-lenberg with part of the board of Atlasson to banker in Stockholm. "That must mean that at some time they want to wield power."

Most piquantly, the chairman can board of Storakopparberg where a full member of the board of Atlasson to banker in Stockholm. "That must mean that at some time they want to wield power." again and again on the various boards.

Volvo has traditionally lived outside this sphere, but in 1982 in the last months of Marcus's life it was allowed access to the federation—with the old man's imprimatur—and there were strong signs of a rapprochement emerging between Volvo and the Wallenberg group.

25 per cent stakes in both Atlas-Copco, the engineering group and in Stora Kopparberg, the forest products concern. The industrial logic of these investments may be questioned for Volvo, an automotive. for Volvo, an automotive, energy and food group, but they marked a definite shift in the Swedish power game. Allied

Initially there were strong doubts about Peter Wallenberg's ability to step into his father's shoes, but over the last year the Wallenberg camp has regrouped under his leadership and has started to reassert itself more strongly, challenging the upstart Volvo's wider role in its traditional sphere of in-

In August last year Investor and Providentia bought control of a block of shares with more than 5 per cent of the voting Volvo moved in to acquire rights in Volvo. Together with other purchases and existing shares, interests associated with the Wallenberg group have built holdings that could control 15-20 per cent of the Volvo
stock, the largest single voting
block. "They have been ready by Skanska, bought up 240,000 long.

ing strength to overcome the other, and as a result they stalemated. The chairmanship went instead to the banking professional, Mr Curt Olsson, the bank's deputy chairman, an acceptable neutral choice for both course. both camps. At Volvo, however, Mr Gyllenhammar has not been sitting idly by watching the Wallenberg counter-attack gnaw away at his power base.

In recent weeks he has begun to forge the new alliance with Skanska, designed to hold in check the Wallenberg interests and ensure Volvo's — and his own -- scope for independent

shares in Volvo, involving nearly 2 per cent of the voting rights and making the company one of the 10 largest share-

Late last week a new package of moves further cemented the budding Volvo/Skanska alliance. Volvo itself purchased a 21.3 per cent interest in Protorp from Skanska and Euroc, the building materials

In exchange Skanska and Euroc have acquired 9 per cent of the equity in Sonessons, hitherto an independently managed subsidiary of Volvo, which held 51.8 per cent of the equity. The 9 per cent stake is worth about SKr256m (£23m) at current market value.

Sonessons has emerged as one of Sweden's fastest growing companies with a turnover that jumped from SKr 500m to SKr 4bn in five years. Originally in light engineering, it has branched out in a series of acquisitions into pharmaceuti-cals and medical equipment. Volvo is planning to reduce its own share to only 25 per cent

hammar axis (Bengt Haak is chairman of Skanska) is one that not even Peter Wallenberg would dare to challenge," said one financial analyst.
For itself, Skanska also sees

the alliance as a way of strengthening both its own and

Lombard

# The great jobs puzzle

By Samuel Brittan

is not only distressing, it is also puzzling. Whatever the fundamental reasons which have and busing caused the unemployment favourably. average to rise from one business cycle to the next, one would expect unemployment to fall, or at least level off during the upturn phase.

For a time last autumn it looked as if it was happening. In October and November seasonally adjusted unemployment did indeed fall. But it started to rise again in December. Taking the whole period since September, which has been clear of the effects of recording changes, the average monthly rise has been just over 10,000—which is still enough to add if per cent per annum to the unemployment rate.

To make matters worse, vacancies which have often proved a better indicator and had earlier been rising rapidly have fallen by 18,000 from the peak of 167,000 which they reached in the autumn. For a time last autumn it

the autumn.

It is still possible that various distortions are affecting the figures. For instance, the num-Volvo is planning to reduce its own share to only 25 per cent in coming months.

Beyond the various equity links, Volvo said that it is also planning to co-operate with Skanska in industrial projects abroad.

Investment bankers in Stockholm see the moves as very smart footwork by the Volvo chairman. The Haak/Gyllenhammar axis (Bengt Haak is suppose that all that is wrong is statistical error, which may after all point in either direction.

The continuing climb in unemployment is all the more puzzling because of all the signs, for instance, in the latest CBI report of the economic recovery broadening out and of the greater likelihood of the monetary demand than present resure is no space here to suggest policy. But it may be that the economy can take a recovery broadening out and of the monetary demand than present resure is no space here to suggest policy. But it may be that the economy can take a monetary demand than present resure is no space here to suggest policy.

THE continuing rise in UK no evidence that real labour unemployment during a period costs, as experienced by em-of vigorous economic recovery ployers, have risen over the last has changed is orders, output and business prospects—all

The explanation may simply be that productivity is rising faster than expected. The latest estimate suggests that output per head has been rising by 6½ per cent per annum in manu-facturing and perhaps 2½ per cent in the whole economy; and the figures could be underestimates because of the deficiencies of production-based

To keep unemployment stable output has to rise by at least as much as the sum of productivity increase and the rise in the civilian labour force. The latter is expected to rise this year by 160,000 or 0.8 per cent of employees — a temporary peak. So if recent productivity trends continue, output would have to rise by about 3 to 3½ per cent for unemployment to

The Treasury originally expected productivity growth to slow down after the burst in recent years. If it has not done so, and if indeed it has been at a higher rate than officially estimated, this would be some upward creep in unemployment. But this may not be all. It is possible that the 80,000 rise in employment between March and September 1983 came partly from outside the ranks of the registered unemployed. This would be likely to be so, if the majority were women, as some evidence (in the absence of full

"Volvo is a good and stable company," said Mr Birger Lewhagen, managing director of Skanska, "but in addition we have similar attitudes when it comes to our companies' independence from the big ownership groups."

The power battle may now return behind closed doors for a while, but given the apparent ambitions of both sides, it is a while, but given the apparent (including the risks of having very reason that the Chancellor ambitions of both sides, it is unlikely to stay there for too high. While this may be so long.

### Sunday trading ployed in retailing, who should be its prime asset. Harry Shepherd. **Sunday trading**

From the Director of the Oxford Street Association

Sir,-Colin Paterson of the Consortium is by no means unrepresentative of the trade's views on Sunday trading, as Mr Fletcher of ASDA suggests in his letter of March 27. This association, in its evidence to the Home Office enquiry, remarked on its serious concern about the implications for retailing's infrastructure, which are glossed over ignored by Mr Fletcher.

The increase in trade for those who open on Sundays in Scotland, which has no relevance to the major English con-urbations, or for those elsewhere who currently flout the law, is as unsurprising and as ephemeral as the early gains for retailers who offered Green Shield stamps. To argue that consumer spending will increase in proportion to trading hours is to offer a simplistic solution to our economic problems: open all shops for 24 hours a day and the retailing boom would revive manufacturing industry at a

Mr Fletcher states that to spread "fixed" costs over longer trading hours is antiinfiationary. But fixed costs are not. Retailing does not operate in isolation from society. Should one or two of our important stores take advantage of total freedom to trade, and given the compactities extend for the warket. competitive state of the market, this would lead to an Oxford Street "open on Sundays."

We would then need changes in the physical distribution system and improvements in banking and postal services, public transport, policing and traffic control, hospital, ambulance and fire services, and of the multifarious and expensive public services such as street cleansing, refuse disposal, traffic wardens, trading standards officers and other local authority

With Oxford Street trading on Sundays, would not Brent Cross, Croydon, Wood Green and all other London shopping centres follow suit? To assume that the increased costs of such infra-structure services would be dis-proportionately less than any assumed increase in revenue is surely to ignore the current arrangements for Sunday overtime rates—double, and in some cases, treble the standard.

Retail enterprise, as Mr Fletcher rightly points out, exists to provide a profitable service to the public. But it also has an obligation to its staff, the majority of whom are female, often wives and mothers. Sunday is the one day still guaranWellington Street, WC2.

### New enterprise in 'grey areas'

From Mr Brian Robson Sir,-Research into the workings of parts of several major towns and cities in the UK has convinced me that failure to recognise the role which certain of these parts play in the local economy is one reason for our flagging national economy.

It is acknowledged by many here and abroad that nearly all goods and services to support it — and all of which it in turn

becomes a part.
What is perhaps less widely acknowledged is that the major seed-beds of enterprise are quite specific parts of towns and cities, namely the overlap areas between the "cnre" "centre" or "heart" and the inner resi-dential and mixed use areas. What gives cause for alarm is that public policymakers and commercial interests have been systematically pouring weed-killer on these valuable seed-beds for several decades.

on "The Future of the City Centre" (since published by Academic Press 1983), the writer observed that such areas have the following characteris-

a. High employment (or work) density;
b. Most of the employment (or work) not registered or known by the local authority;
c. Slightly run-down appear

d. Cheap accommodation; e. Great vulnerability because of b and c.

These are the "grey areas" ripe for ring roads, parking lots or clearance for no clearly understood motive.

This, of course, destroys not only the activities within the area but, in destroying the linkages with areas inside and out, also adversely affects those other areas and the general economic health of the town.

Even when such an area is cleared for redevelopment of a positive nature the result may not be advantageous to the local economy because local firms are then likely to be priced out. giving way to what I would describe as a "colonial ecowhere much of the пошу " money, except for rates and wages, goes outside instead of recirculating in the locality. (The dangers of foreign ownership to the national economy

are well known.) A glance at those cities where the dole queues are longest and trouble greatest invariably picks I regret that Mr Fletcher made up those where the most clear Sir,—The phenomena discusse of all dance has been carried out, often

### Letters to the Editor

with a fine system of new roads. April 3 by Messrs Law and In some cities, however, some | Tooke merely confirm what a such areas have survived the little forethought would lead depredations of anachronistic one to expect. market. This letter is really a plea for their positive conservation, possibly by use of com-mercial improvement area legislation, although it must be emphasised that such areas are essentially mixed-use. They also include retail, service, pubs, cafés and residential use, the latter having a significant effect

in stimulating economic activity new enterprise starts in cities or towns. It can only do so there, and only then if there is a large and healthy poel of a specialist nature with a retail of the second s outlet, sometime representing the reason why some people go to the city at all. Hence the necessity for a near-central location, but all these form part of a matrix of interrelated activities. Some stay in the

activities. Some stay in the area of mutual support but occasionally grow to the extent of being able to carry out their own servicing, canteens and the Only then does an industrial estate location become really feasible, although the advance factory sheds out of town are suitable for low employment activities needing bulk storage

In a paper to the conference only occasionally. The mixed use areas overlapping city centres and inner city areas — where these have survived the "silly sixtles syndrome" — therefore re-

(a) Security and confidence

(a) Security and confidence from redevelopment and road blighting;
(b) Some sort of protection from the depredation of economic forces, including rates.

ing rates.

Given the ability to tailor legislation to local need, these areas given "activity conservation status" should recommend at least the same sort of support as that given to major conservation towns, but with a different emphasis. It is per-haps no accident that these conservation towns appear to be burgeoning economically, with unemployment mostly well

below the national average.

Such a solution might be a meeting ground for partnership schemes between central and local government to the advantage of each. Most politicians.
central and local, are people of
good will who would like to
take any steps to revive the
economy. Watering and manuring the seed-beds of local economy could be one of the

Brian Robson. School of Architecture, University of Newcastle

### Rents in

enterprise zones

all, in "enterprise zones" or anywhere else, competition for use of land, belonging as it does to the few, would ensure a minimum return to the entrepreneur, and a maximum resi due for the landlord.

Taxation cannot reduce the minimum for which an entrepreneur can afford to operate; but it can, and does, reduce the landlord's residue. To decrease taxes as they are now levied is therefore to increase rent.
It would be a different story if taxation were levied at the very source of production, i.e.

according to the value of land irrespective of whether or not the opportunities it presented were being used. This would be a genuine incentive tax, and the "enterprise zones" would soon live up to their name. D. S. Redfearn. 15, Fennell's Close, Burton Road,

Eastbourne BN21 2RJ.

From Mr John Hatherley
Sir,—Please allow me to
develop a point raised in Mr
Leonard Tooke's letter on ren's in enterprise zones (April 3). Behind his and Mr Law's letters is a fundamental matter of public policy, and indeed of

of public policy, and indeed or morality.

Mr Tooke wrote: "Those who regard site values as a justi-fiable private gain are being short-sighted, and those who fail to collect them are merely giving this advantage to others."

The question is simply: Who should recoup the value increment when public money, especially, improves a locality? The Exchequer directly by tax, which has the additional attribute of pruning inflation in land prices back towards the natural supply/demand level, and of reducing PSBR or tax on other taxpayers than site owners? Or should it be the person or company owning the site? I suggest that the former is appropriate.

Private property in land is unknown in tribal societies-ironically also in the Common Law of England. I was astonished recently to read in a book by a Hindu sage for the spiritual improvement of his followers: "The earth is the property of God, but we, the living entities, especially the so-called civilised human beings, are claiming God's property as our own, under both an individual and collective false conception.

"If you want peace, you have to remove this false conception from your mind and from the world. This false claim of proprietorship by the human race on earth is partly or wholly the cause of all disturbances of We in Britain cannot put privately-owned land back to communal ownership, but we can ensure that the community recoups its own through taxa-

John Hatherley. 16, Brighton Road,

### Pakistan denies A-bomb allegation

From the Minister (Information), Pakistan High Commission

Sir,-You reported on March 27 that a spokesman for the Indian Foreign Ministry had alleged that Pakistan had made an atomic bomb and that China had helped to explode it in northern China. This allegation is taterly false.

Unlike India, which exploded a nuclear device in the Rajisthan Desert in 1974, Pakistan has neither made nor proposes to make or acquire a nuclear bomb or similar device. Pakistan has conducted no atomic explosion and its modestsize nuclear programme is solely for peaceful purposes. Pakistan High Commission, London, SW1.

### Independent still

From the Chairman, Marplan Sir,—Antony Thorncroft's report (March 29) on the market research industry was sur-prisingly imprecise in its refer-ence to Marplan and Research

International.

Far from "disappearing . . . into Research International" as Mr Thorncroft describes it. Marpian simply changed owner-ship at the end of 1981 (hardly a current development). Until that time, Marplan had been an independent company within the Interpublic group; it was then acquired by Research International and continued its independent mode of operation much as before.

Max Blackston. Bridgwater House, 5-13 Great Suffolk Street, SE1.

### Efficient

collection From Mr P. Tarrant-Willis

Sir .-- What interests me about the removal of tax relief on life assurance premiums is that it signals that any Chancellor may now take advantage of the efficient collection systems set up for business purposes to vary, remove, or even subsequently to re-introduce tax

reliefs. These changes may be carried out quickly and accurately using the direct debiting system and the Miras mortgage interest scheme.
In all this, there is little cost

or trouble to the collector. Peter Tarrant-Willis.



# Check the convenience on your way home tonight.

Between them, the various garage services payment cards now being thrusted at you have administration and accounting routines too. Instead of possibly hundreds or even probably caused you to wonder about the costs of running your vehicle fleet - and the effectiveness of your present expenses control procedures. month which covers your entire fleet of cars,

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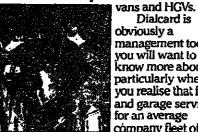
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one hundred typical cars and light vans costs around £170,000 annually. To find out more about Dialcard, phone now or ask your secretary to get in touch with

us and ask for details. Dialcard Limited, Wellington House, 154 Upper Richmond Road, London SW15 2SQ. Telephone: 01-785 7331. Telex: 28165.



How much could we cut your fleet costs by?

# FINANCIAL TIMES

Monday April 9 1984



Terry Byland on Wall Street

### Backing the big winners

have provided Wall Street with dra-ma and thrills, are now establishing themselves as reliable performers in a stock market no longer keen on too much excitement. The leading gaming related issues including Resorts International, the doyen of the Atlantic City operators, Caesar's World and Golden Nugget, all turned in significant increases in share earnings last year and are expected to do the same in 1984.

Nevada, where gaming busines took a knock after Atlantic City had entered the scene, continued to stage a recovery last year, when statewide gaming revenue advanced by 9 per cent to \$3.2bn. At Atlantic City, the aggregate net win - the industry's profit - was up by 19 per cent to \$1.8bn, without any of the additional capacity which have been associated with earlier

The Nevada hotel/casinos depend more heavily than Atlantic City on the hotel-based visitor, who is staying at least overnight and whose custom reflects the well-being of the American and Pecific economies as a whole.

Las Vegas, which has felt the reduction in the flow of Mexican, Chinese and Arab visitors, turned in its lowest percentage increase in yearon-year win, according to the Nevada Gaming Control Board.

The Nevada gaming industry is fighting to regain its former status, chiefly by offering improved hotels and facilities and strongly promotional air fares.

The state is already showing signs of benefiting from the strength of the U.S. economy and the consequent upturn in the business travel and convention market. With the Olympic Games in pros-pect pre-booked convention sales

U.S. GAMING STOCKS

Hilton Hotels in Las Vegas are now running at 80 per cent of capacity, against 68 per cent a year ago. Among the sector leaders, both sar's World and Golden Ni have major casinos in Nevada and are trying to attract the high-rollers who are thought more likely to re-spond to the Nevada name than to

that of Atlantic City.

But a questionmark must hang over whether Nevada can recapture the double-digit growth rates of the early 1970s. The strongest growth prospects still seem to lie in Atlan-tic City, now that the brief standstill in the extension of existing casino space appears to be over. Holiday Inns, the only operator of two casi-nos in Atlantic City, is opening a substantial extension of its Harrah's Boardwalk Casino and Caesar's has similar plans to add to its Boardwalk Regency. These extensions alone will increase casino space in Atlantic City by 17 per

In the past, increased casino space has meant increased net wins at Atlantic City. The last big leap forward came in 1982, when a 33 per cent increase in casino floor area was translated into a 36 per cent rise in the aggregate net win. Casino capacity will rise another 20 per cent by the end of next year

(1985) as Hilton Hotels opens its Marina Hotel and Bally's Park Hotel extends its existing premises.

The increased muscle of the conventional hotel groups in Atlantic City underlines the new threat to

Nevada that the East Coast upstart is now bidding for a share in the up-market high gaming sector which has previously been Nevada's prov-

All this can only be good news for Resorts International, which has seen its stock continue to move up against a weak market this yea The stock price has been held to \$42 by the repurchase at that price of 1.9m shares, in 1983, Resorts lifted net earnings by 47 per cent to \$3.20

It appears to be successfully fighting off a challenge from Gold-en Nugget at the slot machine end of the business and is aiming at the overseas premium-rated customer through expansion of its baccarat games. Forecasts for Resorts' profits range to around \$4.00 a share a gain of 25 per cent. This would put the stock on a prospective earnings multiple of about 10.5, hardly a generous rating when the Dow Jones smokestack stocks are currently on 15.5 times.

The other Atlantic City casino operators are also set to share in the area's continued gaming growth. Golden Nugget and Caesar's World are likely to report sharply higher earnings this year. But they will always have one ace in the hole - further recovery in Las Vegas will give them an extra boost.

WALL STREET WELCOMES END OF COSTLY VIDEO DISC VENTURE

# Disposals put RCA back in tune

IT HAS been a trying and at times crept up to a slightly more respecembarassing decade for RCA. The one-time darling of Wall Street known in its heyday simply as "ra-dio" - has until recently followed a zig-zag path of expansion and con-traction. Profits fell sharply from a peak of \$315.3m in 1980 to \$54m a year later, while the share price languished.

But now the slumbering giant, led by Mr Thornton Bradshaw, who became RCA's fourth chief executive in six years in 1981, appears finally to have grasped the nettle, focusing on its core businesses - communications, information and en-

RCA is selling its CIT financial services division - which it acquired in 1980 in a \$1.2bn deal which almost brought the group to its knees - to Manufacturers Hanover Bank

last year to \$240.8m from \$174m. ed to the video disc decision, and a The net return on sales of \$8.98bn \$75.7m accounting gain, RCA re-

BY ALISON HOGAN IN LONDON

to take an initial 5 per cent stake in

the London-based firm of stockjob-

bers, Charles Pulley, which will complement its much larger 29.9

per cent stake in Hoare Govett, a leading UK firm of stockbrokers,

for which it paid £8.1m (\$11.6m) in

1982. An integration of the broker's

and jobber's interests is a possible

Hoare Govett introduced Charles

Pulley to the capital markets group

of Security Pacific headed by Mr

Mr Richard West, managing di-

rector of Hoere Govett, said vester-

day: "The jobbing business is a peo-

'European

pillar'

for Nato

Continued from Page 1

to rely on the nuclear deterrent, he said. As long as that position lasted,

"I cannot imagine that Europe could be decoupled from the U.S. without immediately coming under

WEU originates from the 1948

Brussels Treaty between Britain, France, Belgium, the Netherlands

and Luxembourg, which was modi-

fied in 1954 to include West Ger

It has been regarded as moribund

for several years, but security is within its brief and it has a parlia-

mentary assembly that meets twice

A senior French official empha

sised at the weekend that the as-

sembly was one of its main attrac

tions. The assembly has the competence to discuss defence and

we think it is essential in this peri-

od that there is as much public dis-

cussion as possible," he said.

Paris is understood to have told

its WEU partners that the expan-

sion of the peace movement in Eu-

rope reflected a wrong but growing

public belief that European interests were totally subordinated to

Continued from Page 1

In the controversy over plans to

axe at least 25,000 steel jobs over the next few years, M Fabius, who has been given a new job of co-ordi-

nating restructuring of hard-hit sec-

tors, announced yesterday he would

go to the Lorraine capital of Metz

on Tuesday to meet local politi-

The offer to hold the meeting in

World Weather

cians, unions and businessme

U.S. strategic concerns.

many and Italy.

a year in Paris.

Will Richardson in Los Angeles.

long-term aim.

Now RCA has announced that it is pulling out of video discs - a prod-uct introduced in 1980 and once described as its "priority project of the decade." RCA will have spent more than \$500m on the video disc - including upwards of \$300m in operating losses on the venture in the last

While the decision was clearly a painful one, as Mr James Magid, an industry analyst with L. F. Roths-child noted yesterday: "It is never good news to fail." Nevertheless it underlines Mr Bradshaw's determination to improve profitability -even if it means taking tough deci-

For that, the former Atlantic Richfield executive is being given full marks on Wall Street. In fact after stripping out the \$175m pre-tax Profits rebounded by 40 per cent first quarter special provision relat-

Security Pacific plans to take

SECURITY PACIFIC, the tenth be the team that we could inte-largest bank in the U.S., is planning grate." but with "the lawyers batting for both sides," Mr West says it should

old senior partner of Charles Pul-

ley, said the firm had had discus-

sions with an Australian merchant

stitutions. "We liked the good name

of Hoare Govett and the strategy of

Security Pacific. We can provide the expertise at the London end for a

business with a world-wide market-

He said they were "hedging their

bets" on future links, depending up-on how the market develops and

what further changes the stock ex-

ple's business, and we looked at the be signed between Security Pacific and decided that a small firm might

pected to resume tomorrow in the

Nottinghamshire coalfield, which

Sir Michael Havers, the Attor-

said political motives and self inter-

est could never justify breaking the

law and it was the Government's

Mr Kinnock has been embar-

rassed by the union's failure to call

national ballot and Mrs Margaret

Thatcher the Prime Minister, has

where he stands on the issue.

repeatedly challenged him to say

Acting as Mr Kinnock's emissary.

Mr Stanley Orme, the Labour Par-

ty's energy spokesman, has held a private meeting with Mr Peter

Heathfield, general secretary of the

violent demonstrations last week in

from the protective presence of riot

planned for later this week. He will

\*C °F Solizing Solizi

duty to stand firm.

French expect investment rise

has decided to continue to work.

change introduced.

people in it. If and when we need a and Charles Pulley and the permis-market-making capacity, this might sion of the stock exchange granted

bank and two London financial in-side backing from two Dutch col-

A formal agreement has still to afoot in the City, I was quite young,

Pressure on miners

BY PHILIP BASSETT AND JOHN HUNT IN LONDON

to hold strike ballot

MR NEIL KINNOCK leader of phasised that the Labour leader

Britain's Labour Party, is privately and the shadow Cabinet will be put

bringing intense pressure to bear in an even more difficult position it

on the country's National Union of Mr Arthur Scargill, the NUM presi-

Mineworkers (NUM) to resolve the dent, tries to irustrate a decision by

dispute over its failure to call a na- the union's executive at its next

tional ballot for its strikes against meeting on Thursday to call a na-

The strikes are now entering their fifth week and picketing is ex-

ney-General, yesterday strongly If a national ballot is called, it is condemned the mass picketing. He by no means certain that it would

the groups to Paris - seems part of a move by M Fabius to assuage strong local feelings over the steel measures to help distressed sectors.

tional ballot.

entitled to vote.

Mr Bernard Leaver, the 37-year-

5% stake in UK stockjobber

first quarter profits to \$69.1m.

The sharp improvement in RCA's underlying profitability in the first last year scheduled for disposal - al-quarter reflects the much improved so appears to have staged a turnperformance of the group's other main businesses, which range from the Hertz car rental company to the NBC radio and television network.

In electronics, while broadcasting equipment sales remain depress revenues and earnings excluding the video disc operation rose sharply to record levels. Higher earnings were also reported by the consumer electronics division – RCA remains the leading U.S. maker of television sets and the premier U.S. VCR

tunes in recent years were due to but, although it still has the smalthree major networks, it is catching up. Last year the broadcasting divi-

1978 from Pinchin Denny with out-

leagues Mr Gordijn and Mr Voer-man. Together, they formed For-tress Belleggingen UK, which is a limited partner in Charles Pulley.

Mr Leaver and Mr Martin West are

both working partners in the firm.

Mr Leaver said: "Charles Pulley was a very sleepy old firm which had got smaller and smaller over

the years as people left to join other

firms. I felt there were changes

provide me with better opportuni-

a ballot. Among the union's leaders

there is now intensive tactical

thinking about how to influence

Thursday's decision.

If a national ballot is called, it is

go against strike action. A majority of 55 per cent would be required among the 190,000 NUM members

Even if there was a majority

against a strike, militant coalfields

like Yorkshire, Britain's biggest,

and Scotland might ignore it. Mr Kinnock and Mr Gerald Kauf-

man, Labour's home affairs spokes-

man, will decide today whether to

apply for an emergency debate in the House of Commons over police

handling of picketing during the

dispute. It is expected that they will

apply and that a debate will be

ported a 117 per cent increase in sion reported a 45 per cent pre-tax earnings jump to \$156.2m.

The rental car business

Generally Wall Street analys believe RCA is on the mend. Mr Magid believes current profits "are about half what they could be" which implies the company still has a long way to go

In recent months the improve-ment in RCA's performance cou-pled with the cash wealth which will flow from its CIT divestibure has led to a wave of speculation about the group being a possible takeover target.

While most analysts believe RCA RCA's broadcasting division is also doing better. NBC's flagging for is still too large to be easily digest escaped their attention that the group last month proposed a series lest audience share among the of measures for shareholder aption of the company more difficult.

### **Shuttle** hitch as docking not take too long. Charles Pulley is the sixth largest jobbing firm. Mr Leaver joined in

Described as one of the most daring ventures so far in the shuttle programme, Dr Nelson's manoeuvring around the Solar Max was planned as the first step in a com-plex procedure to haul the satellite sboard the Challenger shuttle craft

its solar panels to try and install a

The plan is for Dr Nelson to fix placed in its correct orbit.

The mission's main function owever, is to try and repair the Solar Max, and thus demonstrate the feasibility of servicing, fuelling and

essembling structures in space.

Mr Frank Cepollina, manager of the Solar Max repair operation, said the programme could extend the life of the satellite for another six or seven years. "It no longer bye to these assets just because one

were yesterday chartering buses the region, he is likely to benefit and trains for Friday's Paris demin 1980 but began to malfunction after 10 months in orbit because of blown fuses. According to NASA officials the planned repairs would cost only \$45m while a replacement would cost around \$235m

# move fails

THE LATEST U.S. space shuttle mission will today resume its attempts to retrieve the malfunction-ing Solar Max satellite following the failure yesterday of a tricky nanned space walk manoeuvre. The three day old mission ran in

to its first major hitch when a device which astronaut Dr George Nelson was attempting to attach to the Solar Max as part of the procedure designed to stop it spinning in space, failed to connect properly. Further attempts were made to grab onto the Solar Max using the shuttle's robot arm but these also

pack, the astronaut flew the 200 feet from the shuttle to the Solar Max, adjusted his speed to match the speed at which the satellite, was spinning, then moved in between

docking pin.

This pin failed to connect properly, leaving the satellite still revolving too quickly to be seized by the shuttle's robot arm.

the docking pin, then fire a counter blast from his back pack to stop the satellite rolling, at which point it will be possible to retrieve the Solar Max using the robot arm. The satellite will be brought aboard the shuttle, repaired in its cargo bay, and re-

Earlier in the flight Challenger had performed flawlessly. Climbing into an orbit 293 miles above the earth - higher than any previous shuttle expedition - it released the largest satellite the spacecraft has deployed so far on Saturday. The 11 tonne vessel, the Long Duration Ex-posure Facility, will carry out a series of 57 experiments before it is retrieved a year from now

little component fails," he added.
The \$77m satellite was launched

### M Fabius has been forced by his by workers from hard-hit mechaninew duties to cancel a visit to Japan cal engineering and shipbuilding incal engineering and shipbuilding in-German strike decision

"warning strikes" which have so far held stage, could cripple the promising economic recovery now under

onstration. Apart from disgruntled

steelmen, this is likely to be joined

Count Otto Lambsdorff, the Economics Minister, admitted yesterday that a reduction in the standard 40-hour week could be part of the recipe for removing unemployment.
But the 35-hour week, with no matching cut in pay, is the wrong way to go about it," he said.

More ominously, Herr Heinrich Franke, the new chairman of the that in a fight they would prove the Federal Labour Office, observed victors, refused to countenance any that protracted labour disruption reduction in the normal working might well boost unemployment - week.

precisely the opposite of what the

But the chances of an agreemen in extremis now plainly depend on the employers softening their insistence that the basic 40-hour

IG Metall was offered on Friday 3.3 per cent pay rise this year, plus early retirement facilities and a greater flexibility in working hours. But the Frankfurt talks foundered THE LEX COLUMN

# Revolving doors in Lombard St

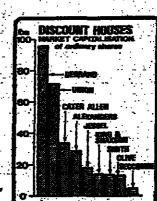
The function of the City of London's discount houses has not progressively adjusted to the changing structure of the Bank of England's money market opera-tions and have diminished in number through merger, but their role as chosen intermediaries between the Bank and the money markets has never been challenged. Now that role is being recast. The revision of the Landon Stock Exchange's rule book has suddenly made them attractive as marriage partners, has opened up to them new areas of endeavour and has hreatened them with competition

Somewhat to their own surprise, the discount houses have become a rare seam of one of the City's most precious commodities - marketmaking expertise. Now that the stock exchange looks certain to open its doors to dual capacity and corporate members, any number of institutions are queueing up outside for the chance to make markets, particularly in gilt-edged. With the principal gilt jobbers already accounted for, the discount houses are virtually the only source of homegrown knowhow.

Until recently, the independence of the discount houses was virtually ensured by Bank of England char-ter. The disastrous takeover of Cive Discount by Sime Darby in the mid-1970s only reinforced the Bank's belief that foreigners and banks, to name but two categories, were mappropriate partners for the discount houses. That approach has now been abandoned and, if criteria met, the Bank will listen seriously to any offer for a discount house. Alexanders has already been snapped up by Mercantile House and others will surely follow.

The Bank had been loosening its grip for some years in any case. Since the monetary control arrangements of 1981, the houses have played a less sensitive role in the formulation of interest rate policy and, as their special responsibili-ties have declined, so have their privileges. The abandonment of reserve assets increased their dependence on market funds and, when club money is finally abolished, they will effectively be standing on their own feet.

between the houses themselves and quacy and distribution. Fresh capitor sufficient extra subordinated to keep a careful eye on their activital ratios will need to be devised debt to allow public liabilities to ties, the Bank has discouraged di- and discount houses will presu- grow much on the scale of 1983 versification and equity-funded mably be permitted free access to growth. By a logic which would apthe capital market - for example to free capital ratio. But steps to repear perverse in the stock market, expand internationally. But last build it might be judged a sounder only houses whose balance sheets week's purchase by Kleinwort Ben-priority.



have been struck by a sudden blight The overall effect of the Bank's line has been to stunt growth. Over the past decade, only Union and Ger-rard have reported an average in-crease in disclosed assets that was any more than the increase in ster-

ling M2.
Yet this paternal attitude hardly squares with the Bank's public commitment to free cantal flows and equal opportunity - known in-house as the level playing field principle. The arrival of dual capacity will in some respects be very helpful to the Bank new ways of selling debt and perhaps even reduce the overall

Yet it would clearly be anomalous to encourage broader participation in the gilt-edged market while re-taining the existing exclusivity in the bill market. It is already rather curious that a one-year bill passes through the discount houses under the supervision of the Bank while a gilt of the same maturity is handled by the jobbers under the the auspices of the stock exchange. The discount market is a rare ex-

mple of dual capacity already in action in the City and it seems sensible that the house should extend into gilt-edged as principals. Conversely, of course, the gilt-edged market makers should extend backwards into bills. Eventually, the level playing field may accommodate a team of designated counterparties, dealing with the Bank in all man-ner of instruments—as primary dealers do in the U.S. The trick is to the players want to take to the field in the first place.

The simpler qualifications for a

Yet, in order to retain a balance place in the team are capital ade-

son of a U.S. primary dealer boasting net assets of only \$18.2m suggests that almost all discount houses are already well enough capitalised for making markets in

The houses do not have a ready made client list for any but shortdated gilts, although they could easily open for business in a limited way with a page or two on the Ren-

The real sticking point is the Bank's attitude towards the separation of functions within a designated institution. The Bank may well insist that designated dealers are capitalised separately from their parents and that trading between, for example, a banking parent and a discount house is heavily circumscribed if not excluded. That an intermediary should be impartial to all end-users is a foundation of the Bank's edifice. But the risk is that in seeking to prevent conflicts of in-terest, and market manipulation, the Bank may compromise its par allel objectives of open access and enhanced liquidity.

### **National Westminster**

The clearing banks will be meet ing formally before the end of this month to compare medicines for their deferred tax ailment. Today's 1983 report and accounts from Na tional Westminister carry a late addendum which suggests proper pre-scription - and rather nasty it is with the biggest spoonful reserved for NatWest itself.

The total deferred tax liability on its leasing portfolio stands at no less than £1.2bn and a once and for all provision is indicated to accommodate the budget's impact. The stated liability assumes a 32 per cent mainstream corporation tax rate and NatWest apparently feels confident of doing enough additional leasing to postpone the crystali-sation until after the rate has fallen sound must after the rate has taken to 35 per cent. But even adjusted for this small blessing, the total liabili-ty only falls to £806m — so, with just £236m so far set aside, the net loss to the bank's reserves this year looks set to emerge at about £570m.

Taken in 1983, this loss would have reduced NatWest's free captal from 5 to 4 per cent of its total public liabilities. The debt to equity geering, ignoring this year's earn without any further damage to the

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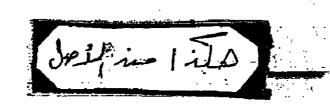
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# SECTION II - COMPANIES AND MARKETS FINANCIALTIMES

Selwood IRE-SALES-PARTS-SERVICE DEPOTS NATIONWIDE Group Head Office Chandlers Ford (04215) 66311

BY PETER MONTAGNON IN LONDON

Monday April 9 1984

INTERNATIONAL BONDS

### Aggressive pricing brings deluge for Eurodollar market

BY MARY ANN SIEGHART IN LONDON

THE EURODOLLAR bond market had the air last week of a group of children playing Monopoly - it started off quite happily but soon it was clear that the whole thing would end in tears. Unfortunately, the money lost by issuing houses

land coal acquisition from General The first fixed-rate new issue of the week was for Statoil, guaran-Electric of the U.S. It was extremely popular, closing on Friday at a tiny 0.07 per cent discount from par. teed by Norway. It seemed sensibly priced and was lapped up by invescent, some dealers suggested the

Then issuing houses started to overreach themselves. SBC Inter-national launched a bond for International Telephone and Telegraph (ITT) paying just 11½ per cent for three years. This was at least 60 basis points less than IIT would have had to pay in the U.S. domestic market and, judging by the Euromarket's reaction to it, about 30 basis points less than it should have paid over here. Within a day, it was. trading at a two point discount, way outside its 1% per cent total fees.

Its price was dragged down by the subsequent flood of aggressively priced, fixed-rate deals into an unresponsive market, GTE and Citicorp, in particular, issued bonds which fell to discounts of more than one point outside their total fees.

By Friday, though, bankers realised that new fixed-rate issues would succeed only on realistic terms. Morgan Guaranty launched a \$150m, five-year bond paying 12% per cent and Toronto Dominion, a \$50m issue with a 12% per cent coupon, also for five years.

The floating rate note market was far healthier, with seasoned bonds edging up in price. Broken Hill Pty, Australia's largest company, launched what lead manager Credit Suisse First Boston (CSFB) claimed to be the first project finance-linked bond in the Euromarket in connection with its Queens-

BHF Bank bond average

1983-84

Since the total fees were 1% per

deal was too generously priced and that smaller fees would have sufficed. However, CSFB points out that, despite the fact that the deal

was guaranteed by the Bank of To-

kyo, investors could have been ner-

all week. Prices in both sectors

99.504

A WEEK after the \$500m rescue willing to predict that all these ne- new debt crisis in Argentina. This dent with other borrowers also boan - \$30n is the current provision- months to reach this point, and

**CREDITS** 

terms with its \$43.6bn foreign debt. The immediate problem of the quarterly balance sheet deadline has passed for U.S. banks, but Argentina still has to complete difficult negotiations with the Interna-tional Monetary Fund and reach a rescheduling agreement with com-mercial banks creditors and possibly with governments. All this needs to be at least well on the way by June 30, or a new debt service arrears problem will arise for U.S.

At the moment few banks are

velopment Bank annual meeting, it sent an aide memoire to the IMF and why it was quickly joined by is clear that the Government of setting out its basic economic tar- Brazil, Colombia and Venezuela. President Raul Alfonsin still faces gets but has yet to agree on how they will be implemented. several major hurdles in coming to

year to January, and since then it has accelerated even further, reaching nearly 480 per cent in March, but President Alfonsin has little political room to manoeuvre towards of the conces economic restraint. Creditor banks are now relying

not want to see their own progress

Argentina urged to be realistic in debt talks

Yet even an IMF agreement hey will be implemented. would not solve Argentina's prob-inflation nearly doubled in the lems entirely. The Alionsin Government is determined to renegotiate the terms of the 1982/83 rescheduling arrangements agreed by the former military regime. The extent yet been defined - though it may become clearer at new talks this on pressure from other Latin Amer- week between Sr Bernardo Grinspun, the economy minister, and leading bank creditors. But senior ican countries to push Argentina towards an IMF agreement. Most other debtors have already taken strin- bankers fear that far-reaching congent measures themselves and do cessions would be hard to sell to the financial community as a whole and towards recovery jeopardised by a might create an awkward prece-

package launched for Argentina in gotiations can be completed in such was the main reason why Mexico seeking to renegotiate better terms. all estimate for 1984. the wake of the Inter-American Deas short space of time. Argentina has proposed the emergency package There is still marked uncertainty. Some bankers on in the banking community about steering committee handling talks. Europe and among a few U.S. re-

Argentina's readiness to treat its with Argentina fear that Sr Gringional banks, even though Mexico's problems realistically. This sets it apart from other crisis cases like Brazil and Mexico, where there was always a basic political will to come to terms with creditors, and makes the final outcome of its debt talks much harder to predict. Bankers close to Argentina well

understand the political constraints on the new government, but this understanding is not shared by all the country's 300 bank creditors, whose patience has been sorely trie d. All of them will have to be party to any eventual settlement of the debt problem, which will almost certainly include a substantial new

and over mean of 6-month bid and offered rate.

spun is labouring under an illusion that all creditor banks will readily accept any package that is put to

That selling new debt rescheduling packages is no easy matter is, storm it created by seeking to renetaken Mexico to complete its \$3.8bn credit. By last week, commitments had been received from all but a main criticisms from participating handful of banks and at the end of banks. the day total subscriptions are expected to reach \$4bn, which will allow \$200m to be rebated on a pro-rata basis according to subscriptions

there are still some pockets of resiseconomic performance makes it the biggest success story in Latin

In the syndicated credit market. Ireland appears to have calmed the vever, shown by the time it has gotiate last year's \$500m credit on softer terms. It has now modified its proposals to take account of the

> One other small development last week was a discreet acceptance by Bank of an increase to \$200m from \$150m in the credit it is seeking

> > Offer yield

|                   | •             |          |                   |             |       | NEW INTER                      | NATIO       | NAL BOND ISSUES             |                |          |                  |             |       |
|-------------------|---------------|----------|-------------------|-------------|-------|--------------------------------|-------------|-----------------------------|----------------|----------|------------------|-------------|-------|
| SWIFTS            | Amount<br>10. | Maturity | Av. life<br>years | Coupes<br>% | Price | Lead Manager                   | Offer yield | Borrowers                   | Amount<br>III. | Meturity | Av. Etu<br>years | Coupen<br>% | Price |
| DOLLARS           |               |          | -                 | `           |       |                                |             | D-MARKS                     |                |          |                  |             |       |
| on Sheet Glass St | 25            | 1994     | 10                | 31/4        | 100   | Daiwa Europe, Nomura Intl.     | 3.250       | New Zealand ‡               | 250            | 1991     | <u>′</u>         | 744         | 100   |
| eneto Co. §       | 109           | 1999     | 15                | 3 -         | 169   | Moesurs Intil., Hilden Sees.,  |             | World Bank ‡                | 360            | 1992     | 8                | 71/4        | 1 DE  |
|                   |               |          |                   |             |       | Merrill Lynch, Daiwa Eur.      | •           |                             |                |          |                  |             |       |
| of Newfoundland ± | 75            | 1991     | 7                 | 13          | 100%  | CCF, Dominion Secs, Ames       | 12.944      | SWISS FRANCS                |                |          |                  |             |       |
| al t              | 188           | 198E     | 4                 | 12          | 188   | Doutsche Bank, Memil Lynck     | 12,890      | Kippon Sheet Glass **5‡     | 30             | 1989     | _                | 134         | 100   |
| t                 | 108           | 1987 (c) | 3                 | 111/2       | 100   | SBCI. Lehman Brus              |             | Damippon Screen #fig. **\$‡ | 100            | 1998     | _                | 134         | 190   |
| -                 |               |          | •                 |             |       | Lezard Bres., Mgc. Guaranty    | 11.500      | Sweden 1                    | 125            | 1994     | _                | 53/4        | 100%  |
| sat ‡             | 109           | 1991     | 7                 | 121/4       | 180   | CSFB, BA Intl., Noroura Intl., |             | Toda Kogyo **\$1            | 68             | 1989     | _                | 13/4        | 100   |
|                   |               | ,        | •                 |             |       | Deutsche Bk., SBCL UBS Secs.   | 12.258      | Yoskitomi Pherm. **¶‡       | 100            | 1989     | -                | 31/4        | 100   |
|                   |               |          | 44                |             |       |                                |             |                             |                |          |                  |             |       |

| æ             | kyo, investors could have been ner-<br>vous of the potential risks of project   |  | 10.                   | Maunky                           | years         | %                        | PIES                     | ress manager   | A CHARLE AND TO    | porqueas  | ALDUSII                             | меши  | years  | %<br>%                 | FIRE                        | rean menefica  | ctrar year                       |
|---------------|---|--|-----------------------|----------------------------------|---------------|--------------------------|--------------------------|--|--------------------|---|-------------------------------------|---|--------|------------------------|-----------------------------|--|----------------------------------|
| .e            | finance. Indeed, even at Friday's<br>price, the bond was still trading on<br>a higher yield than equivalent Bank                                    | U.S. DOLLARS<br>Nippen Sheet Glass St  | 25<br>109             | 1 <b>994</b><br>1989             | 10<br>15      | 3¼<br>3                  | 100<br>160               | Dehwe Europe, Nessura katl.<br>Nossura katl., Mikko Secs.,<br>Warrill Lynch, Dekwa Eur.                                  | 3.250              | D-MARKS<br>Now Zeeland ‡<br>World Bank ‡  | 250<br>300                          | 1991<br>1992  | 7<br>8 | 7¼<br>7¼               | 100<br>190                  | Commerzharik<br>Deutsche Bank  | 7.250<br>7.750                   |
| ıs.<br>V      | of Tokyo paper.  Prospects for this week are highly uncertain. Although secondary market prices picked up on Friday,                                | m +  | 75<br>188<br>108      | 1991<br>1982<br>1987 (c)         | 7<br>4<br>3   | 13<br>12<br>11½          | 190%<br>188<br>198       | CCF, Bominion Secs. Ames<br>Centsche Bank, Merrill Lynch<br>SBCI, Lehman Brus.,  | 12.944<br>12.890   | SWISS FRANCS<br>Nippon Sheet Glass **\$‡<br>Dainippon Screen Wfig. **\$‡                      | 30<br>100                           | 1989<br>1990  | =      | 134<br>134             | 100<br>100                  | SBC<br>SBC   | 1.750<br>1.750                   |
| e<br>B        | they were still at least ½ point down<br>on the week and dealers were ner-<br>vous. Short-term interest rates                                       | Comsat ‡  Bk. of Montreal †(b)‡  | 109<br>250            | 1991<br>1996                     | 7<br>12       | 12¼<br>%                 | 100<br>188               | Lazard Bros., Mgc. Guarasty<br>CSFB, BA lati., Novuez Intl.,<br>Deutsche Bk., SBCI, UBS Secs.<br>Mgc. Stanley, UBS Secs. | 11.500<br>12.258   | Toda Kogyo **\$‡  | 125<br>66<br>100<br>28              | 1994<br>1989<br>1989<br>1989                          | -      | 5¾<br>1¾<br>3¾<br>1½   | 1001/4<br>100<br>100<br>100 | SBC<br>SBC<br>CS<br>Hendelsbank                                      | 5.716<br>1.750<br>3.375<br>1.875 |
| i-<br>Is<br>n | have been extremely volatile and<br>the expected U.S. discount rate rise<br>did not materialise until long after                                    | Broken Hill Pty. †(a) †<br>Broken Hill Pty. †20†<br>Onode Coment Co. ¶<br>GTE Fig. † | 355<br>48<br>30<br>75 | 1996<br>1996<br>1989<br>1987 (c) | 12<br>12<br>5 | 1/4<br>1/2<br>73/4<br>12 | 100<br>100<br>180<br>100 | CSTB, Bk. of Toloro Intl.<br>CSFB, BA Asia<br>Nikko Secs., Robt, Fleesing, IBJ I<br>Orion Royal Bank                     | -<br>Led<br>12,000 | NGK Speck Pieg Co. ""\$" State Blue. Cassum. Victorie ""‡ Eksportfinens Nierway ‡ Belgium ""‡ | 106<br>109<br>109<br>189 <i>2</i> ) | 198 <del>9</del><br>1991<br>1994<br>1 <del>9</del> 89 | =      | 2<br>2<br>51/4<br>57/4 | 186<br>196<br>198<br>188    | SBC<br>SBC<br>Citicorp Bk. (Switz)<br>Bqua. Mgn. Granfell an Suissa, | 5.000<br>5.25 <b>0</b>           |
| ŀ             | European markets had closed down<br>on Friday night. Moreover, the<br>\$675m of fixed-rate issues launched  | Citicoro I   | 190<br>58<br>75       | 1987 (d)<br>1989<br>1996         | 3<br>15<br>12 | 11¾<br>⅓<br>¼            | 189<br>189<br>189        | Morgan Grenfell<br>Morgan Gueranty<br>Luhman Bros., Orion Reyel,   | 11.750             | Mat. Australia Bk. **‡<br>Tokye Store Chain **\$  | 109.2<br>30                         | 1989<br>1989  | =      | 51/2<br>2              | 99¾<br>190                  | Kredietisk. (Suisse)<br>UBS<br>Swiss Volksbank                       | 5.750<br>5.559                   |
| d             | last week is overhanging the mar-<br>ket.<br>Several new floaters are expected  | Dai-Ichi Xangyo †(a)‡<br>Toronto Boninino Bit. ‡                                     | 150<br>58             | 1996<br>1589                     | 12<br>5       | ¥s<br>125⁄s              | 169<br>108               | Mitsubishi Fin.<br>Memil Lynch, Dei-Ichi Kangyo,<br>CSFB, Mgu, Stanley<br>Morgan Stenley                                 | 12,625             | Mitsui Construction **5 Prov. of Br. Columbia **1 N. Z. Railway Co. **1 Taparakraftwarks      | 50<br>325<br>25<br>125              | 1989<br>1989<br>1992<br>1994                          | =      | 23/8<br>5<br>55/8      | 109<br>109<br>108           | Citicorp Bk. (Switz)<br>CS<br>SBC<br>SBC                             | 5.000<br>5.625<br>5.625          |
| <u>-</u>      | this week, and today two presenta-<br>tions to prospective co-managers<br>are scheduled: an FRN by Interfirst<br>Bank (the launch is imminent); and |  | 158<br>68             | 1989                             | 5             | 123/4                    | 109                      | Morgan Guaranty CIBC Ltd.  | 12.258             | STERLING<br>Council of Europe ‡   | 50                                  | 1992  | 8      | 11 <del>%</del>        | 100                         | FGI Samuei   | 11.375                           |
| d<br>n        | a fixed-rate bond from Coast Sav-<br>ings, backed by U.S. government<br>agency securities.  | D-MARKS Tsumera Justondo ¶1  | 196                   | 1989                             | <u>.</u>      | 3%                       | 198<br>                  | DE Bank  | 3.375              | GIEDERS<br>EEC ‡  | 200                                 | 1994  | 10     | 83/4                   | 1001/2                      | ABN, Amro Bank   | 8.673                            |
| r<br>)        | Both D-Mark and Swiss franc<br>secondary markets have been dull   | C. Itol: Fast ¶<br>Hannen Co. ¶<br>EMAC **1  | 25<br>88<br>50        | 1989<br>1989<br>1989             | 5<br>5<br>5   | 31/2<br>31/2<br>67/4     | 188<br>188<br>108        | Centrola Benk<br>Dresdoer Bask<br>Clautrola Bank   | 6.875              | ECIIs<br>Hippon Credit Benk   | 59                                  | 1991  | 61/2   | 11                     | 100                         | Soc. Gen. de Boue., BNP.<br>Nissoen Credit Sk. H. K.                 | 11,600                           |

MARCH 1984

U.S. \$100,000,000

# Takugin International (Asia) Limited (Incorporated in Hong Kong)

Guaranteed Floating Rate Notes Due 1994



Guaranteed as to payment of principal and interest by

# The Hokkaido Takushoku Bank, Limited

Credit Suisse First Boston Limited

Takugin International Bank (Europe) S.A.

**Bankers Trust International Limited** 

Banque Nationale de Paris

Citicorp Capital Markets Group

Daiwa Europe Limited

First Chicago Limited

Lehman Brothers Kuhn Loeb

Samuel Montagu & Co. Limited

Société Générale de Banque S.A.

S. G. Warburg & Co. Ltd.

Banque Bruxelles Lambert S.A.

Bayerische Landesbank Girozentrale

**County Bank Limited** 

Enskilda Securities

Kidder, Peabody International Limited

Manufacturers Hanover Limited

Saudi International Bank Al-Bank Al-Saudi Al-Alami Limited

Swiss Bank Corporation International Limited

Westdeutsche Landesbank Girozentrale

These Bonds having been sold outside the United States of America and the Netherlands Antilles this announcement appears as a matter of record only

### **GMAC OVERSEAS FINANCE CORPORATION N.V.**

**Curação, Netherlands Antilles** 

U.S.\$ 80000000

Bonds of 1984 due 1991/96 Interest payable in Swiss Francs at the rate of 5 1/4% p.a. on the aggregate subscription price of

Swiss Francs 100 000 000

### GENERAL MOTORS ACCEPTANCE CORPORATION Detroit, Michigan, U.S.A.

SODITIC S.A.

AMRO BANK UND FINANZ

**MORGAN STANLEY S.A.** 

BA FINANCE (SUISSE) SA

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KREDIETBANK (SUISSE) S.A.

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Bank Heusser & Cie AG

Banque de Dépôts et de Gestion Bank für Kredit und Aussenhandel AG

Bank Oppenheim Pierson (Schweiz) AG

Banque de Participations et de Placements S.A.

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Banque Gutzwiller, Kurz, Bungener S.A.

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Banque Indosuez, Succursales de Suisse

Chase Manhattan Bank (Suisse)

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Nippon Kangyo Kakumaru (Switzerland) S.A.

Sanwa Finanz (Schweiz) AG

Société Générale Alsacienne de Banque

- Groupe Société Générale -

U.S. BONDS

# **Discount rate rise** shifts focus back to money supply

tightly controlling reserves and the money supply, after a year and a half during which it set

unofficial interest rate targets, as a result of which there was a substantial expansion in the

monetary base but a steady Fed

The Fed's discount rate increase could mark something of a watershed. As a clear state-ment of political independence

and a long awaited signal re-affirming the Fed's anti-infla-tionary stance and thus a

bolster to its market credibility, the move could have a profound

effect on a depressed market. There remain a number of

major uncertainties not least the unresolved budget deficit debate and concerns about mounting private credit demand.

Ahead of the discount rate

Ahead of the discount rate move, the credit and money markets had turned in a patchy performance. After failing to a new low of 95 on Tuesday to yield 12.65 per cent the price of the Treasury long bond closed the week at 96% to yield 12.40 per cent the price.

per cent, though it edged down on Friday to show a marginal

increase over the week by th

New issue activity showed renewed signs of life despite a half-point decline in seasoned

quarter-point decline in the

THE FEDERAL Reserve has the widespread view that the finally acted. At the end of a Fed has now formally shifted week in which the Fed funds its Fed funds monitoring range rate touched 12 per cent at one upwards, meaning that it has stage, the banks raised their in effect endorsed the firming of prime rates for the second time interest rates brought about by in three weeks, long bond prices felt to new lows, and the Fed topped it out with a bala Some Wall Second Some Wall prices fell to new lows, and the Fed topped it out with a half argue that the Fed has reverted at least in part to a policy of discount rate from \$\ \} per cent tight to 9 per cent. The change was the the first since December 1982, and and the first increase since May

The Fed's move late on Friday night ended a protracted

U.S. INTEREST RATES (%)

Apr 6 Mar 30 Fed funds weekly average 10.41 9.97 3-month CD's 10.40 10.33 3-month T-Bills 9.77 9.68 30-yeer Treasury Bond AAA Utility 21.25 13.50 13.50 13.50 13.50 13.25 Source: FT estimates.

In the week ending March rose by \$2.24bn to \$538.3bn.

period of uncertainty and speculation in the financial markets. Nevertheless, it has probably generated as many questions as it has answered. In particular, attention has been focussed once more on the Fed's reserve management 12.40 per cent, down from 12.56 policy and on the money supply. per cent a week ago.

The Fed attributed the discount rate increase to technical during the week as the Fed factors, and specifically to the "relatively wide spread between short-term market." and the discount rate." to that increase over extent, as several Wall Street Friday close. economists noted late on Friday, the increase was inevitable, yet that does not lessen its

gnificance. medium-term issue prices ahead Speculation about a discount of the Friday raily and a rate rise had increased steadily over the past few weeks and price of long-term bonds. the markets had partly, dis-counted it. However, the Fed waited to act until the Argentine debt agreement was com-plete, the Fed funds rate had peaked and was on the way down, and the credit markets had stabilised.

On the face of it, the dis-second rate increase marks a rate notes. significant tightening of the Fed's stance, especially given

# Turner may bid against ABC for cable network

Turner, which runs CNN, a 70 per cent of ESPN, was widely expected to sell Getty's non-oil nel and owns WTBS, the second largest cable channel, said it but adds that no formal offers was studying information in preparation for making a hid for

TURNER BROADCASTING, the U.S. television and cable near future.

Texaco, the third largest U.S. Getty. The remaining 15 per cent is owned by Mr William Could emerge as rivals for control of the Entertainment and Sports Programming Network (ESPN), the largest cable network in the U.S. which reaches some 30m households and is controlled by Texaco, the oil company, which runs CNN, a Turner, which runs CNN, a 24-hour-a-day cable news chan-

stake up for sale. Based on the price ABC paid for its 15 per cent stake, analysts believe ESPN could be

### Revised offer by Kelso for US Industries

THE TAKEOVER struggle for U.S. Industries, the Connection in its new leveraged buy out the company sumer products group hotted up at the weekend, when Kelso bid \$22 a share through its and Company, the New York Hanson Industries subsidiary in the ITS following Kelso's considered by a committee of

up at the weekend, when Kelso bid \$22 a share through its and Company, the New York Hanson Industries subsidiary in substitution investment bank revised its the U.S. following Kelso's considered by a committee of offer to a price well in excess original offer of \$20 a share in outside directors, who advised of the bid from Hanson Trust February.

Kelso's revised offer was made terms.

### Carma to double capital

CARMA, THE Calgary land developer which is one of the heaviest casualties of the property slump in Alberta, intends to double its common share capital as part of a C\$700m (US\$547m) refinancing programma.

The company will issue 31.2m new shares to settle various obligations, bringing the number outstanding to 55m by mid-May. The issue is insufficient, however, to cover Carma's commitments and it said further to the cover carma's commitments and it said further to the cover carma's constitute the cover carma's carma ca issues are possible before the

Preferred shareholders will receive a total of 22.7m common shares worth C\$10.5m at current market prices for their 6.5m pre-ferred shares with a par value of C\$130m. Carma will issue another 2.9m common shares to holders of C\$87m of debentures in part payment for interest owed since the beginning of 1983. Th remaining shares will be issued to three major creditors. The issue will reduce the stake of Carma's major shareholder, the Nu-West Group, which has serious financial problems of its own from 49 per cent to 41 per cent

# Moulinex maintains earnings recovery

MOULINEX, THE French kit- Consolidated operating profits chen equipment maker, boosted fell to FFr 111.2m from FFr group net profits last year to 133.9m in 1982. FFr 68.8m (\$8.5m) from The company has already FFr 53.2m in 1982, despite a indicated that comparisons with sharp fall in operating profits. the 1982 results would be dis-The result, which maintains torted by the cost of restructur-The result, which including torted by the cost of restructurthe group's recovery after a mg U.S. operations. This folhalving of careings in 1981, was lows the setting up of a joint
achieved on consolidated turn resture with the American
over up only 8.2 per cent to Regalware kitchen equipment
FFT 2.91bm, against FFT 2.74bm company.

Moutiser is still the object
The company said its results of removes over who will take
were affected last year by over when M Jean Mannelet, the
restrictions on South American S-year-old chairman main
sales, the restructuring of its shareholder, eventually gives un

restrictions on South American sleet, the restricting of its shareholder, eventually gives up North American subsidiary, and the reins. M Mantelet, who has the low volume rise in its business. Among other exceptional 1932 and has no heir, amounfactors, were high depreciation ced in 1981 he was looking for costs and charges from an early a new partner—but does not retirement scheme.

### **Growth for Wereldhave**

WERELDHAVE, the Dutch property fund which last year mounted a successful defence against a determined takeover bid by PGGM, the Netherlands' of F1 9 per ordinary share has largest pension fund, recorded a 150 per cent rise in the 1982.

Dutch Shell Group as operations manager "explorations" in Peru.

### Finance chief for

• Mr Robert M. Kavner has been elected a senior vice presi-dent of AT & T and will become chief financial officer on May 1. He is a partner in Coopers and Lybrand. He will be responsible for directing and co-ordinating the organisations which integrate the financial systems and analytical processes for the corporation as a while including farancial management, accounting, budgeting, economic forecasting, tax planning and other related matters.

New managing director of New managing director of Sweden's fifth largest general insurance company, ALLMANNA BRAND, is to be Mr Nils-Yngve Danielsson, until recently managing director of the Gothenburgbased marine and general insurance company, Atlantica Insurance Company New issue volume bounced back to \$1.38bn compared to less than \$600m the previous week. Among the new issues Occidental Petroleum launched \$350m of 10-year 12.25 per cent variable-rate subordinated notes, Insurance Company.

♦ WALT DISNEY PRODUCTIONS has made the following appointments: Mr Lee Reem to \$400m of three-year floating Paul Taylor | spontanent, sales promotion,

worldwide; Mr Wendall Mehler to vice president, publishing; Mr Roland Plerce to vice president, retail merchandis: Mr Gary Krisel to vice president, USA licensing; Mr Pete Smith to executive director, USA licensing; and Mr Jee Pellegrine to director, USA

@ Mr Frank J. Blondi, Jr. who had been president and chief executive officer of HOME BOX OFFICE INC, has been appointed chairman and chief executive of the Time Inc subsidiary. Succeed-

• Sir Neel Foley retired as chairman of CSR, Sydney, on March 31. Mr Keith Steel has been appointed chairman.

INTERNATIONAL APPOINTMENTS Mr Dennis R. Twining president of Freeport Metals Sales Co. Freeport Metals is a new entity established for the purpose of centralising all sales and market-

the Time Inc subsidiary. Succeeding him as president is Mr Michael J. Fuchs, who was president of the HBO Entertainment Group. Mr Fuchs will also sarve as HBO's chief operating officer, a newly-created title. Mr Winston H. (Tony) Cox, president of the HBO Network Group, will assume additional responsibility for the programming activities of HBO's Cinemax service. As president of the Network Group, he is in charge of HBO's sales. marketing and network operations functions.

TREEPORT MINERALS COM1983.

dent of Freeport Minerals in will be succeeded at Nova-Park.
PANY, a subsidiary of FreeportMcMoRan Inc., has appointed FIRST COMMERCE SECURIhotels in Europe, the Middle



Mr Dennis R, Twining, president of Freeport Metal Sales

ing activities for metals, both domestic and foreign under a single unit. Mr Twining was named director of metals and ore sales in 1980 and vice president of France and Vice president of Vic

vice-president and Mr Thee Van Engeland to assistant comp-troller. All are assigned to the Brussels office.

• Dr Reme Denti has been nominated to succeed Mr Heinrich Hing as new managing director of ZYMA, the Swiss pharmaceutical affiliate of the Ciba-Geigy group. Mr Hing is to retire after the coming share-bolders' meeting.

Bljur, who is assuming new responsibilities for special assign-ments related to Texaco's recent ■ Mr Max Engel, hitherto vicepresident, operations, of Swissbased Nove-Perk Management Group, has been appointed thairman of SWISSOTELS, the Mr Norman P. Blake, Jr, has been named chairman and chief executive officer of HEILER. joint venture of Nestle and

TIES B.V., an international stock brokerage firm based in Amsterdam, has appointed two managing on May 1. Mr G. Kardann, considerations of General Electric Credit directors. They are Mr B. W. J. managing director of N.V. Steensma, who is director of corporate development and Mr E. H. J. C. le Clercq, who is director of sales.

MORGAN GUARANTY essentive vice-president formerly essentive vice-president and Mr Willy businessed him. Dr J. Bloom TRUST COMPANY OF NEW has promoted Mr Willy businessed him. Dr J. Bloom was with Royal vice-president and Mr Thee Van Duich Shell Group as operations.

Mr Blake has been executive vice president-financing operations of General Electric Credit Coup.

Mr Blake has been executive vice president-financing operations of General Electric Credit Coup.

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Mr Blake has been executive vice president of General Flectric Credit Coup.

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Mr Blake has been executive vice president of General Flectric Credit Coup.

Mr Blake has been executive vice president of General Flectric Credit of Gen Nello Calie as board chairman.
Dr Celio, a former Swiss finance
minister, is to retire. At the
same time, group financial
director Mr Guenter Bolte is foreseen as a new board member,
while on July 1 Mr Francis N.
Steeg will take over Mr Jacobs'
position at the head of the group
management. manager "explorations" in Pettl.

Mr Raymen A. O'Deberty has been appeinted president of TEXACO OIL TRADING AND SUPPLY CO. This division is responsible for worldwide purchases and sales of crude oil and petroleum products. He was senior vice president in the division. He succeeds Mr Peter I. Bliur, who is assuming new

● Mr. Carl R. Turner has been appointed division vice president and general manager of the RCA solid state division, New Jersey. Mr Turner will be responsible for the development minfacturing and marketing of all solid state products at RCA.
He was staff vice president,
planning, for RCA electronic
products and laboratories. He succeeds Mr Robert S. Pepper, who has been named vice presi-dent business development dent business development electronic products and labora

This advertisement complies with the requirements of the Council of the Stock Exchange



# Kingdom of Sweden

U.S. \$200,000,000 12% per cent. Bonds due 1989

> The following have agreed to subscribe or procure subscribers for the above Notes:

**Swiss Bank Corporation International Limited** 

Algemene Bank Nederland N.V. **Credit Suisse First Boston Limited Dresdner Bank Aktiengesellschaft** 

**Merrill Lynch Capital Markets** 

**Morgan Guaranty Ltd Orion Royal Bank Limited** 

Post-och Kreditbanken, PKbanken

Banque Nationale de Paris **Deutsche Bank Aktiengesellschaft** Kredietbank S.A. Luxembourgeoise Samuel Montagu & Co. Limited Nomura International Limited **Salomon Brothers International Limited** 

Union Bank of Switzerland (Securities) Limited

S.G. Warburg & Co. Ltd. Skandinaviska Enskilda Banken

Svenska Handelsbanken Group The 12% per cent. Bonds due 1989 have been admitted to the Official List by the Council of The Stock Exchange,

subject only to the issue of the temporary Global Bond. Interest is payable annually in arrears on 26th April, the first payment being made on 26th April, 1985. Full particulars of the Notes will be circulated in the Extel Statistical Service and may be obtained during usual

business hours (Saturdays excepted) up to and including 23rd April, 1984 from the brokers to the issue:

Rowe & Pitman, City-Gate House, 39/45 Finsbury Square, London EC2A 1JA

Strauss Turnbull & Co., 3 Moorgate Place, London EC2R 6HR

9th April 1984

# international company of The Fuji Bank. Heller niternational is the holding company for Walter E. Heller and Co and Walter E. Heller Overseas Corp. ET INTERNATIONAL BOND SERVICE

Target on the state of the stat

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**EUROBOND TURNOVER** (nominal value in Sm)

Cedel clear Other bonds Last week ... 1,792.6 2,115.3

Previous week 2,024.0 2,421.6 \* No information available

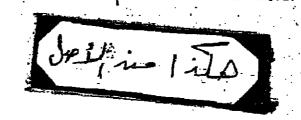
STRAIGHT BONDS: The yield

is the yield to redemption of the mid-price; the amount issued is in infilions of currency units except for Yen bends where it is in billions. Change on week= Change over price a week FLOATING RATE NOTES

salewn is minimum. Care = Date
next compon becomes effective.
Spread = Margin above six-month
offered rate (three-month;
f above mean rate) for U.S.
floliars. C.cpn = Tie current
coupon. C.yki = The current
yield. CONVERTIBLE BONDS: De-

nominated in dollars unless otherwise indicated. Cng. day = Change on day. Cav. dage = First date for conversion into shares. Cnv. price = Nominal amount of to the control of the shares via the bond over the most recent price of the shares.

The list shows the 200 latest international bonds for which an adequate secondary market exists. The prices over the past week were supplied by Krediethank NV; Credit Commercial de France; Credit Lyonnais; Commercial de France; Credit Lyonnais; Commercial de France; Credit Lyonnais; Commercial de France; Banque Generale du Luxembourg SA; Banque Infernationals Eunembourg; Rredie fvink Luxembourg; Rredie fvink Suisse/Swiss Credit Bank; Pierson, Heldring and Plerson; Credit Suisse/Swiss Credit Bank; Union Bank of Switzerland; Aknoyd and Smithers; Bank of Tokyo International; Blyth, Essimen, Paine, Webjer International; Credit Commercial de France (Secinties) London; Dalwa Burope NV; EBC; First Chicago; Goldman Sachs International; Burth International; Kidder Pesbody International; Mongan Stanley International; Nonora International; Nonora International; Nonora Credit Nonora Corporation; Credit Suisse Stanley International; Nonora International; Nonora International; Nonora Corporation; Credit Suisse Stanley International; Nonora Corporati



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any. The Directors of the Company have taken all reas

Offer for Subscription by

# N. M. Rothschild & Sons Limited

on behalf of

# Biotechnology Investments Limited

of 2,000,000 Ordinary Shares of 2 cents each at £9.15 per Share payable in full on application.

SHARE CAPITAL

in 7,500,000 Shares of 2 cents each

The Shares now offered rank in full for all dividends and other distributions hereafter declared, made or paid on the issued share capital of the Company other than the interim dividend of 10 cents per Share payable on 31st May, 1984 to shareholders on the register at the close of business in Guernsey on 28th March, 1984. Preference will be given, in respect of up to 20 per cent. of the Shares now being offered for subscription, to applications made by existing shareholders in the Company. The procedure for application is set out below.

This Offer has been underwritten by N. M. Rothschild & Sons Limited.

consent of the Advisory and Finance Commuttee of the States of Guernsey under The Control of Borrowing (Bathwick of Guernsey) Ordinances 1959 to has been obtained for the issue of Shares in connection with this Offer. It must be distinctly understood that, in going his consent, the Commutee takes no maibility for the financial soundness of any schemes or for the correctness of any of the statements made or opious expressed with regard to them. Shares have not been registered under the United States Securities Act of 1933 and, except in a transaction which does not violate such Act, mor not be dy or indirectly offered or sold in the United States of America (including its territories, possessions and areas subject to its jurisdiction) or to or for the it of a United States person. For this purpose, "United States person" includes a national or resident of the United States of America, a partnership used or existing in any state, territory or possession of the United States of America, a corporation organised under the laws of the United States of America any state, territory or possession thereof, or any estate or trust, other than an estate or trust the income of which from sources outside the United States of vica (which is not effectively connected with the conduct of a trade or business within the United States of America) is not included in gross income for the vice of computing United States federal income tax.

All references to "USS", "dollars" and "cents" are to lawful currency of the United States of America

DIRECTORS
Lord Rothschild (Chairman) GBE, GM, ScD, FRS
New Court, St. Swithin's Lane, London EC4P 4DU. James Carroll Blair (USA)
One Rockefeller Plaza, New York, NY10020, USA. Sir Edwin Hartley Cameron Leather (Canada)
The Harold Hayes Frith Building, Par-la-ville, Hamilton, Bermuda. David Frederick James Leathers New Court, St. Swithin's Lane, London EC4P 4DU.

Donald Peter Lines (Bermuda) Front Street, Hamilton 5-31, Bermuda Nicolas McAndrew New Court, St. Swithin's Lane, London EC4P 4DU. David Padwa (USA) 3375 Mitchell Lane, Boulder, Colorado 80301-2244, USA. Edward Benjamin Ziff (USA) 550 First Avenue, New York, NY10016, USA.

P.O. Box 242, St. Julian's Court, St. Peter Port, Guernsey, Channel Islands.

Bermuda Shield Trustee Company Limited, P.O. Box 1020, Hamilton, Bermuda.

N. M. Rothschild Asset Management (C. I.) Limited, P.O. Box 242, St. Julian's Court, St. Peter Port, Guernsey, Channel Islands. Telephone: Guernsey (0481) 26741/27042 Telex: 4191673/4191507

INVESTMENT ADVISERS
N. M. Rothschild Asset Management Limited,
New Court, St. Swithin's Lane. London EC4P 4DU.
Telephone: (01) 280 5000

Telex: 888031

VENTURE CAPITAL ADVISERS Rothschild Inc., One Rockefeller Plaza, New York, NY10020, USA. Telephone: New York (212) 757 6000

BANKERS & CUSTODIAN

AUDITORS & REPORTING ACCOUNTANTS

Peat, Marwick, Mitchell & Co., Chartered Accountants 10 Lefebvre Street, St. Peter Port, Guernsey, Channel Islands.

LEGAL ADVISERS TO THE COMPANY In England: Linklaters & Paines.

Barrington House, 59-67 Gresham Street, London EC2V 7JA. In Guernsey: Ozanne, van Leuven & Perrot, 1 Le Marchant Street, St. Peter Port, Guernsey, Channel Islands

LEGAL ADVISERS TO N. M. ROTHSCHILD & SONS LIMITED Ashurst, Morris, Crisp & Co. . Broadgate House, 7 Eldon Street, London EC2M 7HD .

STOCKBROKERS Cazenove & Co., 12 Tokenhouse Yard, London EC2R 7AN.

RECEIVING BANKERS

INTRODUCTION

other biotechnological technique, developed in 1975, involves the fution of natural anti-Another ordermological reconducts, developed in 1975, involves the ruson of natural announty-producing cells with cultured tumour cells, making what are called hybridomas. These produce large amounts of highly specific monoclonal antibodies, which have already improved diagnostic testing and purification processes and may lead to methods of directing drugs to particular disease centres in the body. A second emerging diagnostic technique utilises labelled fragments of synthetic DNA, known as DNA hybridisation probes, to identify specific gene

Biotechnology also encompasses the use of enzymes, which are complex organic catalysts that are essential for the numerous chemical reactions which occur in living organisms. Genetic engineering permits the development of new and improved enzymes which can be used in a variety of manufacturing processes. In another area, advances in biochemical engineering and process control have led to substantial increases in efficiency in the fermentation

These and other recent developments in biotechnology provide enormous potential both to replace conventional These and other recent developments in biotechnology provide enormous potential both to replace conventional manufacturing processes and to develop entirely new products over a wide range of industries. Already genetically-engineered human insulin has reached the market and tests based on monoclonal antibodies are now available for the more rapid diagnosis of some forms of cancer and certain infections diseases. The recently introduced sweetener, aspartame, is the combination of two amino acids that can be produced in bulk using enzymatic processes. Among other products currently being developed using recombinant DNA technology are human growth hormone, a more effective vaccine against bepartits B and a blood-blotting agent for traemophiliaes known as Factor VIII.

known as Factor VIII.

There are many other examples of how the "new" biotechnology is likely to have a substantial impact not only on human and animal health care but also in areas such as food processing, chemicals, energy, waste treatment and pollution control. Perhaps the application of biotechnology that will eventually prove to be the most important is in plant genetics, because of the possibility of increasing the world's food supply. Plant breeding by classical methods has a long history of outstanding success but is inevitably a slow process because of the relatively long reproductive period of plants. The application of novel techniques to bypass natural genetic barriers, as well as gene manipulation, is only just beginning, but it now seems possible that methods will be developed to breed plants that are, for example, more resistant to disease and drought and which can be grown in areas currently unsuitable for aericulture.

Investment opportunities in biotechnology cover a broad spectrum of companies around the world, both quoted and unquoted. These range from large, well-established companies where the involvement in biotechnology currently represents a relatively insignificant part of the companies' activities, but where its potential strategic impact is important, to small, research-based organisations totally committed to biotechnology developments, where the risk and reward are proportionately greater. There are a number of companies that fall between these extremes, including those involved in such areas as fermentation equipment and laboratory instrumentation. The Company has sought to achieve an appropriate overall balance in building up its portfolio. Brief details of the Company's quoted investments as at 20th March, 1984 are set out in Appendix A and of its unquoted and restricted investments as at that date in Appendix B. Of the nineteen inquoted or restricted investments, ten are in the broad area of health care, four in agriculture, two in laboratory instrumentation and equipment and one each in chemicals, mineral processing and waste treatment.

There are also exciding investment opportunities involving apolications of high technology in the medical field.

chemicals, mineral processing and waste treatment.

There are also exciting investment opportunities involving applications of high technology in the medical field which, although allied to hiotechnology, do not always incorporate biological processes. Some examples are diagnostic instrumentation, imaging equipment, implantable infusion pumps and drug delivery systems. The Company therefore recently obtained shareholders' approval for a limited proportion of the Company's assets to be available for investment in this specialised area of health science, without prejudicing the Company's fundamental long-term commitment to biotechnology.

INVESTMENT POLICY

INVESTMENT POLICY

The Company was established to allow investors to participate in one of the major technological revolutions of the twentieth century. It rased USS-6m. in June, 1981, mainly from UK institutional investors, and is the leading investment company specialising in biotechnology. Its investment objective is long-term capital appreciation by investing in quoted and unquoted companies anywhere in the world that are involved in any aspect of biotechnology or, to a certain degree, health science. The balance of the Company's assets between quoted and unquoted investments depends on the availability of suitable opportunities but it has always been the intention that the greater part of the assets will be invested in securities which are initially unquoted. These have been, and are likely to continue to be, venture capital investments which involve taking equity stakes either in new companies or in those at an early tage of development. These companies should not be expected to produce significant profits for several years and may well require additional funding during the course of their development.

No investment will require a defining the tit is made, more than 20 ver cent. (and in normal circumstances more

No investment will represent, at the time that it is made, more than 20 per cent. (and in normal circumstances more than 10 per cent.) of the Company's net assets. It is the Company's normal policy to purchase not more than 20 per cent. of the equity of any company.

cent. of the equity of any company.

The evaluation of unquoted investment proposals is carried out with the assistance of five eminent scientists who have been retained by the Company as consultants. Additional consultants are likely to be appointed. Reports are also commissioned from other experts when necessary. The evaluation is based on the following criteria. First, the company under review should not only employ scientists of high calibre but also first-rate business managers able to develop a successful commercial venture. Secondly, the company's business plan should clearly define its research and product areas and contain both a market analysis and a realistic assessment of the competition. Thirdly, there must be a protential rate of return in line with the risk taken, the Company's intention being to seek a much higher than average return on each unquoted investment within three to seven years from the date of investment, than average return on each unquoted investment within three to seven years from the date of investment. Fourthly, if an investment is to be made by the Company in conjunction with other investors, one member of the Fourthly, if an investment is to be made by the Company in conjunction with other investors, one member of the investing group should have the responsibility of monitoring the venture. In some cases the Company has played this role. Lastly, there must be a prospective method of realising the investment. This would normally be through a public share assue.

puttic snare user.

It is the Company's general policy to retain an investment in companies which have obtained a public quotation, It is the Company's general policy to retain an investment in companies which have obtained a public quotation provided that adequate future growth is envisaged. The Company takes an active part in the affairs of the unquoted companies in which it has invested, including, in many cases, representation at board level. It does not, however, seek either managerial or legal control of any company in its portfolio.

REASONS FOR THE OFFER

Since it was established, the Company has received more than 200 proposals for investment in unquoted companies and a number of these are currently under review. The Directors expect there to be a continuing flow of investment proposals and feel that it is in the Company's interest to raise further capital in order to be in a position to take proposals and feel that it is in the Company's interest to raise further optical in order to be in a position to take advantage of these opportunities, while retaining sufficient liquidity to provide for possible further investment in cristing normalies.

While rapid charges in science and technology present attractive opportunities for investment in companies in the While rapid charges in science and technology present attractive opportunities for investment in companies in the fields described above, special risks are often associated with such companies. They may spend a substantial part of their resources on research and development (which may be commercially unproductive), or require the injection of further loads to exploit the results of their work. New processes and products may not be commercially viable or of further loads to exploit the results of their work. New processes and products may not be commercially viable or further loads to exploit the results of their work. New processes and products may not be commercially viable or further loads to exploit the results of their work. New processes and products may not be commercially viable or further loads to exploit the results of their work. New processes and products may not be commercially viable or further loads to exploit the results of their work. New processes and products may not be commercially viable or further loads to exploit the results of their work. New processes and products may not be commercially viable or further loads to exploit the results of their work. New processes and products may not be commercially viable or their results of further loads and products may not be commercially viable or their results of their work. New processes and products may not be commercially viable or their results of their work. New processes and products may not be commercially viable or their results of their work.

It is a consequence of the investment policy referred to above that a significant proportion of the Company's investments are and will continue to be in companies whose securities are not publicly traded or freely marketable and may therefore be deficult to realise. Exchange rates are unpredictable and could have a significant impact on the value of the Company's investments. The marketing of many of the products manufactured by companies in which the Company has invested will require the continuing approval of regulatory bodies.

It must be emphasised, therefore, that investment in the Company should be regarded both as long-term and as carrying a high level of financial risk.

SUMMARY

The information set out below should be read in conjunction with the full text of the Prospectus.

Biolectinology Investments Limited was formed in 1981 to enable investors to nurchase shares in a company Stotechnology Investments Limited was formed in 1981 to enable investors to purchase shares in a company whose main objective was, and remains, investment in the rapidly developing area of biotechnology. The Company now has a portfolio of 37 investments with an aggregate value of US\$49.6m. (£34.5m.) as at 20th March, 1984. This includes 19 unquoted or restricted investments representing 60.4 per cent. by value of the total portfolio. Investments in the USA comprise 60.4 per cent. by value of the portfolio, and those in the

Shares were initially issued by the Company in June, 1981 at US\$10.00 per Share. The following table illustrates the subsequent movement in the Company's net asset value per share:—

30th November 31st May 30th November 10.79 1984 11.91 20th March A summary of the Net Asset Value per Share as at 20th March, 1984 is set out in Appendix C.

A summary of the Net Asset value per Share as at 20th March, 1984 is set out in Appendix C.

For the purposes of computing the Company's net asset value per share, the discount applied in respect of restricted investments on and before 30th November, 1983 was 33½ per cent. and not the current rate of 25 per cent. Further, the discount was applied in respect of the Company's entire holding of restricted investments and not just such part of the holding as comprised restricted shares (see note below on restricted investments under the heading "Existing Portfolio"). If the latter discount had been applied on 30th November, 1983 and only to the restricted shares, the net asset value per share on such date would have been US\$13.73. The effects on the net asset value per share in previous periods are not considered material.

OFFER STATISTICS

The Offer for Subscription is being made at a price determined by reference to the sterling equivalent of the Net Asset Value per Share as at 20th March, 1984 after provision for the payment of an interim dividend on 31st May, 1984. The calculation of the Net Asset Value has been prepared by the Managers on the basis of the guidelines set out in the paragraph headed "Valuation of Investments" but no assurances are given that the Company's assets could have been realised at such values on such date. The Company's Auditors have reviewed the procedures applied by the Managers in computing such Net Asset Value per Share and have inspected the underlying documentation.

Net Asset Value per Share as at 20th March, 1984 U\$\$13.24 (£9.21) Net Asset Value per Share as at 20th March, 1984 (adjusted for interim dividend) US\$13.14(£9.14) Net Asset Value per Share as at 20th March, 1984 (adjusted for the issue and interim dividend) U\$\$13.00 (£9.05)

Attention is drawn to the paragraph headed "Risk Factors" below. It must be emphasised that investment in the Company should be regarded both as long-term and as carrying a high level of financial risk.

The net proceeds of the issue are estimated to be US\$25,350,000, assuming that the ½ percent, commission referred to in "Procedure for Application" below is paid in respect of all subscriptions for Shares. The proceeds will be used to further the Company's investment activities.

CURRENCY OF ACCOUNTS

The Company draws up its financial statements in dollars, its principal operating currency.

Except as otherwise expressly stated, for the purpose of calculating the Offer Price and in stating currency equivalents in the Prospectus, currency has been translated at £1.00 = US\$1.437, being the spot exchange rate quoted in London at the close of business on 20th March, 1984.

PREFERENTIAL APPLICATIONS

Preference will be given to applications from shareholders of the Company on the Register at the close of business in Guernsey on 28th March, 1984 for up to a total of 400,000 Shares (representing 20 per cent. of the Shares being offered for subscription).

Subscription lists open 12th April, 1984 13th April, 1984 18th April, 1984 19th April, 1984 13th June, 1984 Basis of allotment announce Letters of allotment despatched Last day for splitting
Last day for registration of renunciation Definitive share certificates despatched

EXISTING PORTFOLIO

Some 60.4 per cent. by value of the existing portfolio of 37 investments are in the USA and 12.7 per cent. in the UK. Brief details of the Company's investment portfolio are set out in Appendices A and B. The following table categorises the investments currently held by the Company by marketability and geographical

|                            | 20th M                                    | Valuation as at<br>20th March, 1984  |                      |  |
|----------------------------|---|--------------------------------------|----------------------|--|
|                            | USS                                       | Ē                                    |                      |  |
| Quoted<br>US<br>Other      | 6, <b>297,62</b> 5<br>13, <b>322,</b> 034 | 4,382,481<br>9,270,726               | 12.7<br>26.9         |  |
| Unquoted<br>US<br>UK       | 12,596,949<br>6,301,027                   | 8,766,144<br>4,384,848               | 25.4<br>12.7         |  |
| Restricted*<br>US          | 11,071,663                                | 7,704,706                            | 22.3                 |  |
| Total<br>US<br>UK<br>Other | 29,966,237<br>6,301,027<br>13,322,034     | 20,853,331<br>4,384,848<br>9,270,726 | 60.4<br>12.7<br>26.9 |  |

New Issues Dept., PO Box No. 79,2 Princes Street, London EC2P 2BD. Since the Company commenced business in June, 1981 it has invested in 18 unquoted companies and one restricted investment. Five of these unquoted companies in the USA have subsequently obtained stock market quotations and are now restricted investments. Details of these five companies are now restricted investments.

| Company                             | Date of<br>Purchase | Cost      | Date of Initial<br>Public Offering | Valuation as at<br>20th March, 1984 |
|-------------------------------------|---------------------|-----------|------------------------------------|-------------------------------------|
|                                     |                     | USS       |                                    | USS                                 |
| Amgen, Inc.                         | June, 1981          | 515,001   | June, 1983                         | 768,984                             |
| Applied Biosystems, Inc.            | Sept., 1981         | 700,625   | June, 1983                         | 4,530,488                           |
| DNA Plant<br>Technology Corporation | April, 1982         | 999,025   | Jan., 1984                         | 1,065,624                           |
| Immunex Corporation                 | Oct., 1982          | 752,302   | July, 1983                         | 1,236,820                           |
| Integrated Genetics, Inc.           | Feb., 1982          | 1,000,000 | July, 1983                         | 1,105,247                           |

"Note: A restricted investment is an investment in the shares of a US company which has become publicly quoted but where all or part of the Company's holding of such investment is subject to restrictions on sale. The shares subject to such restrictions ("restricted shares") are valued at a discount (currently 25 per cent.) to the bid price of fully marketable shares of that company. Since this discount is applied only to the restricted shares, the overall discount applied to the restricted investment will be less than 25 per cent, to the extent that the holding comprises shares which are not so restricted.

PRO-FORMA STATEMENT OF NET ASSETS

A pro-forma statement of the net assets of the Company as at 20th March, 1984, adjusted to take account of the net proceeds of the issue and the interim dividend, is set out below:—

Quoted, at market value 19,619,659 29,969,639 Unquoted and restricted, at Directors' valuation 49,589,298 Current assets Debtors and prepayments Certificates of deposit and bonds Bank balances 232,440 10,177,048 27,659,532 38.069,020 Current liabilities Creditors and accrued charges 847,587 Net current exsets 37,221.133 Preliminary and listing expenses less amount amortised 39,282 86,849,713 Deferred liability Incentive fee 1,061,887 85,787,826 Financed by:-Share capital 132,000 71,216,000 10,689,822 3,748,004 85,655,826 85,757,826

The Company's income consists of interest on funds deposited pending investment and dividends received from portfolio companies. The Company's policy is to distribute the whole of this income after making provision for expenses and for reserves to prevent undue fluctuation in the level of dividend from year to year. For the period ended 31st May, 1982 income available for distribution was US\$576,481 and for the year ended 31st May, 1983 it was US\$68,734. In both periods a dividend of 10 cents per share was declared at an annual cost to the Company of US\$460,000. An interim dividend in respect of the year ending 31st May, 1984 of 10 cents per share, also costing US\$460,000. As been declared and will be paid on 31st May, 1984 to shareholders on the register at the close of business in Guernsey on 28th March, 1984. It is not intended that any further dividend will be paid in respect of the year ending 31st May, 1984.

Save as aforesaid, dividends are usually paid in September of each year. The first dividend in respect of the enlarged share capital is expected to be paid in September, 1985. The Directors intend that the dividend policy described above will be maintained in subsequent years. However, as the Company's funds become more fully invested in securities which pay little or no dividend, it is anticipated that the level of dividend paid to shareholders will fall.

MANAGEMENT AND OPERATIONS

The members of the Board of Directors, all of whom are non-executive, are as follows:—

Lord Rothschild (aged 73 years) (Chairman) is a non-executive Director of N. M. Rothschild & Sons Limited. He was formerly Research Co-ordinator of the Royal Dunch Shell Group and Director General of the Central Policy Review Staff of the Cabinet Office. He is also a Fellow of the Royal Society.

James Blair (aged 44 years) is a Managing Director of Rothschild Inc., where he has been involved in venture capital investment for six years including three years in biotechnology venture capital investments.

Sir Edwin Leather (aged 64 years) is a former Governor of Bermuda and an executive Director of N. M. Rothschild Services (Bermuda) Limited.

David Leathers (aged 41 years), a Chartered Accountant, is an executive Director of N. M. Rothschild Asset Management Limited, with whom he has been an investment manager for eleven years. He has been actively involved in biotechnology venture capital investment for the last three years. Donald Lines (aged 52 years) is Chief General Manager of The Bank of Bermuda Limited and a Director of Bermuda Shield Trustee Company Limited.

Nicolas McAndrew (aged 49 years) is a Managing Director of N. M. Rothschild & Sons Limited, the Managing Director of N. M. Rothschild Asset Management Lamited, Chairman of N. M. Rothschild Asset Management (C.I.) Limited and a Director of Rothschild Inc.

David Padwa (aged 52 years) is Chairman of Agrigenetics Corporation, of Boulder, Colorado, USA. Edward Ziff (aged 41 years) is Professor of Biochemistry at New York University Medical Centre and is one of

The overall responsibility for the management of the Company and for determining and reviewing the Company's investment policy is vested in the Directors.

### **Biotechnology Investments Limited** continued

The Company has appointed N. M. Rothschild Asset Management (C.I.) Limited (the "Managers") to manage the investments of the Company and to undertake the Company's administration (subject to the overall supervision and control of the Directors) and to act as its Registrar. The Managers act as the managers of substantial unit trusts and other similar funds in Company.

The Company has appointed N. M. Rothschild Asset Management Limited (the "Investment Advisers") as advasers to the Company and the Managers as to the investment and reinvestment of the Company's investment portfolio. The Investment Advisers have wide experience in the field of investment management and strong international connections. Funds under management by the Investment Advisers as at 31st December, 1983 totalled approximately £3,000m.

The Company has appointed Rothschild Inc. ("RINC") to advise on venture capital investments in the USA and, if requested, in other areas. RINC and its predecessors have been active in venture capital and special situation investments for over thirty-five years, during which period advice has been given on venture capital investments exceeding US\$200m. in over 100 companies.

RINC acts as investment adviser to other funds which are engaged in venture capital investment (though not in such a specialised field as the Company) and may co-ordinate the investment of the Company's assets with investments made by such other funds. However, in such circumstances, the Company has the option to acquire up to 50 per cent of the securities in brotechnology companies made available for investment by the funds which RINC advises. RINC, its affiliates and their respective managements may also participate in investments in portfolio companies. The services of the Managers, the Investment Advisers and RINC are provided pursuant to agreements, details of which are given in Sections 3(1). (ii) and (iii) of "General Information" below. Further information on the Managers, the Investment Advisers and RINC is given in Sections 7, 8 and 9 of "General Information" below. PREPARATION OF REPORTS AND ACCOUNTS

The audited accounts of the Company are prepared annually to 31st May. Half-yearly reports are published in respect of the period to 30th November in each year. Copies of all reports and accounts are sent to shareholders.

The General Meeting of the Company is held annually in Guernsey. Notice convening this General Meeting is forwarded to shareholders, together with the annual report and accounts of the Company, normally in July or August of each year and in any event giving not less than 21 days' notice of the Meeting.

MANAGEMENT FEES AND EXPENSES The Company pays the following fees to the Managers:-

(a) 13 a per cent, per annum, payable semi-annually, of the value of the net assets of the Company.

(a) 13 a per cent, per annum, payable semi-annually, of the value of the net assets of the Company.
(b) An incentive fee equal to 20 per cent of any net increase in the value of the Company's unquoted investments during an accounting period, after taking into account any net reduction in value carried forward from preceding accounting periods. Investments which, when acquired, were unquoted but subsequently become quoted on a stock exchange will continue to be treated as unquoted for the purpose of calculating the incentive fee, unless quotation occurs within six months of the date of acquisition. Such incentive fee will be calculated and will accrue on each balance sheet date but will only become payable when there are sufficient liquid resources. No incentive fee will, in any case, be paid before the end of the filth financial year of the Company (31st May, 1985) and thereafter the fee will only become payable when the net asset value per share (after taking into account such accrued fee) has exceeded US\$15. In any event, only 50 per cent, of such accrued fee will be paid, the balance being carried forward to the following year. This amount will be available to offset the effect on the incentive fee of any future net reduction in the value of the Company's unquoted investments or as an addition to any amount of incentive fee calculated for that year, when 50 per cent, of the aggregate of such amounts will be payable, the balance being carried forward on the same basis.
The Managers are responsible for paying the fees of the Investment Advisers and RINC (the Venture Capital Advisers), and the fees of Rothschilds in connection with their appointment to advise on unquoted investments in the United Kingdom and Europe and to undertake financial appraisals (see Section 3(vi) of "General Information" below).

The Company bears the out-of-pocket expenses of the Managers, the Investment Advisers and RINC. In addition, the Company bears all other operating expenses and brokerage, including the fees and expenses of the Directors, the Secretary, the Custodian, the Auditors, the consultants and the members of the Valuation Advisory Board (see

Further information on fees and expenses is given in Section 4 of "General Information" below.

VALUATION OF INVESTMENTS

Valuations are prepared in accordance with the following guidelines (which are not intended to be exhaustive):—

(a) Quoted investments Fully marketable shares listed or dealt in on a national securities or stock exchange or the US over-the-counter market, are valued at the bid price on such exchange or market.

(b) Unquoted investments These are initially valued at cost. A reduction in the valuation of an unquoted investment is made if considered appropriate in the light of a company's condition or prospects. Increases in value are in normal circumstances only made if substantiated by significant transactions in the relevant company's shares by third parties.

A restricted investments

A restricted investment may consist wholly of restricted shares (as defined in the note to the paragraph headed "Enisting Portfolio") or partly of restricted shares and partly of shares that are not subject to restrictions on sale. Restricted shares are currently valued at a discount of 25 per cent, to the bid price of marketable shares in the relevant company. Shares in such a company which are not subject to restrictions on sale are valued on the same basis as described in (a) above.

The discount application is a second of the same and the same basis as described in (a) above.

The discount applied has been reduced from 33% per cent. to 25 per cent, since 1st December, 1983 with the approval of the independent Valuation Advisory Board (referred to below) as this is now considered to be the appropriate discount to be applied in valuing restricted shares in biotechnology companies.

(d) Limited partnership interests
These will initially be valued at cost until the Company has satisfied its investment commitment to the partnership. Thereafter, such interests will be valued by reference to the net asset value of the partnership.

(c) Cash, certificates of deposit and bonds
Cash is valued at its current dollar equivalent. Certificates of deposit and bonds are valued on the basis of the current yield of certificates of deposit and government bonds of similar size, credit status and maturity.

Investments denominated in currencies other than dollars are translated into dollars at the spot rate of exchange

ruling on the valuation date.

The Managers are responsible for preparing valuations of the Company's investments for approval by the Directors. RINC, in their capacity as Venture Capital Advisers, provide the Investment Advisers and the Managers with recommended valuations for each of the unquoted and restricted investments held by the Company based upon the foregoing guidelines, subject to such adjustments as may be applicable in particular circumstances. These valuations are reviewed by members of an independent Valuation Advisory Board appointed by the Directors. The members of the Valuation Advisory Board are regarded by the Directors as having expertise in the valuation of unquoted investments as a result of their experience in finance and industry. The Directors, having regard to the recommendations of the above-mentioned parties, value the investments, and their valuation, together with the other information provided by the Managers, forms the basis of the half-yearly and annual accounts.

The Directors do not envisage making use of the borrowing powers available to the Company, detailed in Section 6 of "General Information" below, save in exceptional circumstances, or as a means of acquiring an investment denominated in a currency other than dollars when the appropriate currency may be borrowed against the deposit of

TAXATION - THE COMPANY

The Company has not incurred, and it is not expected that the Company will incur, any tax in Guernsey other than Guernsey corporation tax, the current rate of which is £300 per annum. The Directors seek to procure the conduct of the affairs of the Com

Interesting the UK and that it would not be deemed to be a close company it it were so resident.

Investment income received by the Company is subject to any withholding tax deducted in the relevant country of

Under the US Foreign Investment in Real Property Tax Act ("FIRPTA"), the Company may be liable to US taxastion at a maximum rate of 28 per cent. on a disposal of its investment in a US corporation if at any time during the five years prior to the disposition more than 50 per cent. in value of the US corporation's business assets consisted of US "real property" (as defined in FIRPTA). While the Company does not intend to invest in companies that invest principally in US real property, the provisions could apply, for example, to an investment in a company that owns real property for use in its business activities.

It is possible that FIRPTA may require non-public reports to be filed by the Company disclosing the identity of some of its larger shareholders. The rules governing such reports have not been finalised, but the Company intends to take all reasonable steps available to avoid such disclosures.

- TAXATION - THE SHAREHOLDERS

Shareholders (other than residents of Guernsey, Alderney and Herm) are not subject to any tax in Guernsey in respect of any Shares owned by them. Guernsey income tax is, however, deducted from dividends payable in respect of Shares held by or on behalf of residents of Guernsey, Alderney or Herm. There is at present no Capital Gains Tax, Estate Duty or Capital Transfer Tax in Guernsey.

of Shares held by or on behalf of residents of Guernsey, Alderney or Herm. There is at present no Capital Gams 1 az, Estate Duty or Capital Transfer Tax in Guernsey. Clearance has been obtained from the Board of Inland Revenue of the UK under Section 464 of the Income and Corporation Taxes Act 1970 that the provisions of Section 460 of that Act (cancellation of tax advantages from certain transactions in securities) will not apply to the issue of Shares or subsequent disposals by shareholders (except in the case of a sale to a company in which the wendor has a substantial interest).

The attention of individuals ordinarily resident in the UK is drawn to Section 478 of the Income and Corporation Taxes Act 1970 and to Section 45 of the Finance Act 1981. These contain provisions for preventing avoidance of income tax by individuals by transactions resulting in the transfer of income to persons (including companies) abroad and may render them liable to taxation in respect of undistributed income and profits of the Company. The Inland Revenue has issued details of provisions proposed to be charted in the Finance Act 1984 which will have effect as from 1st January, 1984 and which will charge gains made by UK taxpayers on realisations of investments in certain offshore funds to tax at rates applicable to income. After consultation with the Inland Revenue, the Directors believe that this new legislation, when it is enacted, should not apply to the Company or its shareholders. In consequence, gains realised by UK taxpayers on disposals of Shares in the Company by way of a sale on The Stock Exchange or otherwise should continue to be charged to tax at the rates attributable to capital gains. Further changes in the law are proposed which, with effect from 6th April, 1984, may subject certain UK companies to tax on the profits of companies, not so resident, in which they have an interest. The proposals will affect UK resident companies which are deemed to be interested in at least 10 per cent. of the profits of non-residen

Prespective Investors should ascertain from their professional advisers the consequences of acquiring, holding and disposing of Shares under the relevant laws of the jurisdictions to which they are subject, including the tax consequences and any exchange control requirements.

ACCOUNTANTS' REPORT

The following is a copy of a report received by the Directors from Peat, Marwick, Mitchell & Co., the Anditors and Repuring

The Directors, 22rd March, 1984 N. M. Rothschild & Sons Limited ey Investments Limited (the "Company") was registered in Guernsey on 16th April, 1981 and co

The summarised revenue accounts and balance aheets set out below are based on the audited accounts of the Company after making such adjustments as we consider appropriate. No accounts of the Company have been prepared since 30th November, 1983.

In our opinion these summaries, which have been prepared on the basis of the accounting policies set out below, together with the notes thereon, give a true and fair view of the state of affairs of the Company at 30th November, 1983, and of the nex revenue of the Company for the periods stated.

As referred to in Note 1(g), the Accounts do not include a statement of source and application of funds as required by International

| REVENUE ACCOUNTS   | 6 months to    | Year ended | 12th June, 1981 |
|--|----------------|------------|-----------------|
| REVERUE ACCOUNTS   | 30th November, | 31st May,  | to 31st May,    |
|  | 1983           | 1983       | 1982            |
|  | USS            | USS        | USS             |
| Revenue (Note 1)   |                |            |                 |
| Dividends receivable .                                   | 33,212         | 86,099     | 38,674          |
| Interest receivable                                      | 992.042        | 2,182,405  | 1,960,691       |
|  | 1,025,254      | 2,268.504  | 1,999.315       |
| Expenses (Note 2)  | Pro 960        | 1.000.777  | 876,278         |
| Management for   | 539,390        | 1,080,723  |                 |
| Castodian for  | 46,234         | 92,633     | 75,110          |
| Secretarial fee  | 500            | 1,000      | 1,000           |
| Directors' feet  | 15,728         | 37,578     | 36,127          |
| Auditors' remuneration                                   | 2,916          | 6,410      | 3,580           |
| Consultants' fets  | . 23,861       | 38,552     | 133,459         |
| Guerascy corporation tax                                 | 437            | 481        | 990             |
| Other expenses   | 53,440         | 152,708    | 96,604          |
|  | 681.706        | 1,410,085  | 1,773,148       |
| Net revenue after taxation                               | 343,548        | 858,419    | 776,167         |
| Americation of preliminary and listing expenses (Note 1) | 99,843         | 199,685    | 199,666         |
| Carried forward  | 243,705        | 658,734    | 576,481         |



|   | •                              |            |                        |
|---|--------------------------------|------------|------------------------|
|   | 6 months to                    | Year ended | 12th June, 1981.       |
|   | 30th November,                 | 31st May.  | to 31st May,           |
|   | 1983                           | 1983       | 1982                   |
|   | US\$                           | <u>uss</u> | USS                    |
| Brought forward   | 243,705                        | 658,734    | 576,461                |
| Dividend  | =                              | 460,000    | 469,000                |
| •   | 243.705                        | 198,734    | 116,481                |
| Belance brought forward                                   | 315,215                        | 116.481    | _                      |
| -   | 550,920                        | 315,215    | 116,471                |
| Earnings per share (Note 3)                               | 5 cents                        | 19 cents   | 17 cests               |
| Dividend per share  | _                              | 10 cents · | · 10 cents             |
| BALANCE SHEETS  | 30th November, 1983<br>USS USS |            | 31st May, 1983<br>US\$ |
| Investments (Nete 1)                                      |                                | TO 115 CO  |                        |
| Quoted, at market value (Note 4)                          | 20,785,867                     | 19,115,676 |                        |
| Unquoted and restricted, at Directors' valuation (Note 5) | 26,810,881<br>47,665,751       | 14,549,386 | 33,665,062             |
| Corrent estets<br>Debtors and prepayments                 | 119.526                        | 2,291,715  |                        |
| Certificates of deposit and bonds (Nate 1)                | 13,208,828                     | 23,714,113 |                        |
| Rank helenors   | 2,397,02A                      | 3.835.402  | · ·                    |
| <b></b>   | 15.725,378                     | 29,841,230 |                        |
| Сихтем BabiliGes  | 65 L.1e7                       | 826,973    |                        |
| Creditors and accreed charges<br>Proposed dividend        | 431,107                        | 460,890    |                        |
| Proposed divident   | 651,167                        | 1,286,973  |                        |
| Net correst assets  | 15,074,211                     |            | 28,554,257             |
| Preliancery and listing expenses                          | 99,843                         | •          | 199,686                |
| less amount amortised                                     | 62,839,805                     |            | 62,419,005             |
| Deferred limb@ry  | 861,850                        | •          | . 330,358              |
| Incentive for (Note 5)                                    | 61,977,955                     |            | 62,668,647             |
| Financed by:—<br>Share capital (Note 6)                   | 92,000                         |            | 92,000                 |
| Reserves<br>Share premium (Note ?)                        | 45,908,000                     | 45,908,000 | 1                      |
| Cannal reserve (Note 8)                                   | 11,610,823                     | 11,966,445 | ;                      |
| General reserve (Note 9)                                  | 3.808.212                      | 3,806,987  |                        |
| Revenue account   | 558,920                        | 315.215    | •                      |
|   | 61,885,955                     |            | 61,996,647             |
|   | 61,977,995                     |            | 62,988,647             |
| Net asset value per starre                                | US\$13.47                      |            | . 118813.90            |

1 ACCOUNTING POLICIES

made at the dis

oned investments are valued at the our piece of a recognized source countries an independent Valuation Advisory Board. The n Advisory Board is vessed with the authority to recommend to the Directors valuations of the Company's magnoted and linvestments. The policy followed by the Directors and the Valuation Advisory Board is to leave employed investments at so there has been a clear indication that there has been a change in the company's situation. Cost in most instances will not by reflect a direct interest in tampible assets of an investme company and may not therefore represent the amount which might be realised on disposal. Any increase in the valuation of imputed investments is in normal encountainess only made if ated by significant third party transactions in the relevant shares. Any reduction in the valuation of an enquated investment is the discretion of the Directors on the recommendation of the Valuation Advisory Board to reflect changed conditions within many.

that company.

3. Restricted investments (i.e. investments which have obtained a US public quotation but where all or part of the Company's holding. is subject to certain functions on sale) are valued by the Directors, on the reconsumation of the Valuat discount to the bid price of marketable shares in the relevant company.

A. Limited partnership interests are valued at one one mail the Company has satisfied its investment companying. Thereafter, such an interest is valued by reference to the net asset value of the partnership.

5. Certificates of deposit and bonds are valued by the Directors in consultation with the Investment Advisers on the basis of the current yield of certificates of deposit and government bonds of similar size, credit status and maturiny.

inguion of gains and losses on sale of investments givestments sold is determined on an average cost basis for purposes of calculating gains or losses on sale. (d) Surpluser origing on certificates of deposit and bonds
Surpluses arising from the disposal prior to maturity of short term investments in certificates of deposit and bonds are dealt with

tarough general reserve.

(c) Prefundance and listing expenses

The initial prefundance and listing expenses which amounted to US\$599.057 are being amortised over a period of faree years from the date on which they were ancurred and will be fully amortised by 31st May, 1984.

 Revenue Dividends on investments and interest on bank deposits and bonds are included on a receivable basis. Interest on certificates of deposit where they are held to maturity.

sert of source and application of funds
at of source and application of funds, as required by International Accounting Standard No. 7, is not included in these to the opinion of the Directors, such a statement has little relevance to this Company.

(b) Foreign currency translation
Assets and liabilities expressed in foreign currencies are translated into USS at the rate of exchange ruling at the Balance Sheet date.
Revenue Account items are translated into USS at the rate ruling at the time of the transaction.

2 EXPENSES OF MANAGEMENT

(a) Management fee
Under an agreement dated 19th May, 1981, as amended, N. M. Rothschild Asset Management (C.1.) Limited were appointed as the
Managers, subject to the overall supervision of the Disectors and with powers of delegation, to manage the Company's administrative
affairs, to act as its Registrar and to manage the Company's investments.

(b) Custodian fee
Under an agreement dated 19th May, 1981, as amended, N. M. Rothschild & Sons (C.I.) Limited was appointed as the Custodian to be responsible for the custody of the Company's investments.

\*\* \*\*E A DESTRUCTE DETA CHARE The calculation of cornings per share is based on net revenue after transion (before amortisation of preliminary and listing expenses) and 4,600,000 Ordinary Shares of 2 cents each in issue.

4 QUOTED INVESTMENTS At 30th November, 1983 the Company held 18 quoted investments with an aggregate market value of USS20,785,867.

5 UNQUOTED AND RESTRICTED INVESTMENTS The Company held the following unquoted and restricted investments at 30th November, 1983:-

| Company                                | Holding and<br>Class of Stock  | Cost                   | 30th November,<br>1983 | Equity<br>interest in<br>company<br>cy |
|--|--|------------------------|------------------------|--|
| Advanced Mineral Technologies, Inc.    | 250,000 Convertible Preferred  | 250,080                | 250,000                | 25.0                                   |
| Agrigenetics Corporation               | 124,627 Common   | 1,434,807              | 1.246.270              | 1.2                                    |
| Amges, Inc.                            | 128,750 Common   | · 515,001              | 593,486                | · 1.1                                  |
| Applied Biosystems, Inc.*              | 295,000 Common   | 700.625                | .3.508.288             | 5.8                                    |
| Catalytics Associates, Inc.            | 571,430 Convertible Preferred  | 1.000,002              | 1.000.002              | 10.4                                   |
| Celltech Limited                       | 1.780.000 Ordinary   | 5.017.664              | 4,566,590              | 11.1                                   |
| CW Ventures                            | Limited parmership interest  | 333,334                | 333,334                | 3.1                                    |
| DNA Plant Technology Corporation       | 355,208 Comman   | 999,025                | 999,025                | 2.9                                    |
| Genetic Systems Corporation*           | 450,000 Common   | 900,000                | 2,939,625              | 23                                     |
| Genzyme Corporation                    | 274,002 Converable Preferred   | 999,997                | 999,997                | 5.5                                    |
| Ішпинез Согротаціон "                  | 300.320 Common   | 752,302                | 1,307,894              | 5.0                                    |
| Integrated Genetics, Inc.*             | 300.000 Common   | 1.000.000              | 1,206,000              | 3.6                                    |
| International Plant Laboratories, Inc. | 13,500 Common  | \$67,000               | 567,000                | 5.1                                    |
| Plant Genetics, Inc.                   | 487_500 Convertible Preferred  | 1.950.000              | 1.950,000              | 9.6                                    |
| Queue Systems, Inc.                    | 40,000 Converable Preferred  | 500,000                | 500,000                | 6.0                                    |
| Repligen Corporation                   | 350,000 Series 'A' Convertible Preferred<br>105.300 Series 'B' Convertible Preferred | 2,012,500<br>1,000,350 | 3,325,000<br>1,000,350 | 7.5<br>2.2                             |
| WMC (Resource Recovery) Limited        | 702,500 Ordinary   | 398,400                | 987,023                | 25.0                                   |
|  |  | 28,531,007             | 26,879,884             |  |

A discount of 331 per cent, was applied to the Company's holdings in restri pages at Juli November, 1983, the Directors (with the approval of the independent Valuation Advisory Board) have-decided to reduce the discount applied in respect of restricted investments from 33) per cent. to 25 per cent. The latter is now considered to be the appropriate discount to be applied in valuing restricted shares in biotechnology companies. On and before 30th November, 1983 the chacums was applied in respect of the Company's entire holding of restricted investments and not just such part of the holding as companied restricted shares. Had the discount of 25 per cent. been applied at 30th November, 1983 and only to the restricted shares, the net asset value per share would have been US\$13.79. The effect of the change of discount on the net asset value per share at 31st May, 1983 is not considered to be considered to be considered to be considered.

With the exception of the investment in CW Ventures, the equity intensit represents the proportion of the share capital of each investment owned by the Company on a fully diluted basis.

All investments owned by the Company are either in the form of equity or are convertible into equity and the per-based on the exercise of all conversion and subscription rights by the Company and other parties. The investment in the form of a luminod particularly interest where there is a consistent to invest an additional USS666.666. The per CW Ventures is based on the full payment of this additional commitment by the Company and the other partners.

The shares is need on me payment or mis administration of the companies of the control of the co

Authorised 6,250,000 Ordinary Shares of 2 cents each 125,000 T25,000 Jamed and felly paid 4,600,000 Ordinary Shares of 2 cents each 7 SHARE PREMIUM 31st May, 1983 USS iom on initial issue of Ordinary Shaces. 45,908,000 45,908,000 8 CAPITAL RESERVE appreciation on quoted 284,716 6.988,520 er at 3 Let May, 1983 ments thering period ended 30th November, 1983 371,777 7,273,236 (1,521,216) Balance at 30th November, 1983 5,752,020 6.348,676

(149,233) 1,094,845 (181,125) 10,871,600 (330,358) 11,966,445 (531,492) (353,622 (861.850) 11,610,823 Belance at 30th November, 1983

Under an agreement dated 19th Mary, 1981, as amended, N. M. Roduschild Asset Management (C.J.) Limited receives an incentive fee based on the appreciation (Dess depreciation) of the Company's unquoted investments during an accounting period. The incentive fee provided above is due for payment on 31st Mary, 1986 or on any subsequent 31st Mary provided that the not asset value per thank of the Company at that time is not less than 15515 after accruing the incentive for. At such time as the fee is due for physical duty 50 per cost, of such accrued fee will be paid, the balance being carried forward to the following year. 9 CENERAL RESERVE Total Movements during period ended 31st May, 1982 Movements during your ended 31st May, 1983 1,161,230 1,240,495 1,999,139 (593,877) Balance at 3 ist May, 1983 3,239,634 297,384 567,353 (296,159) 271,194

The Company has an outstand payment on 13th April, 1984. east to invest a further US\$666,666 in CW Ventures, of which US\$334,333 is due for

Yours faithfully, Peat, Marwick, Mitchell & Co. Chartered Accessors



P CORPORATE STRUCTURE—
The Company was registered with limited liability in Guernsey on 16th April, 1961 under the provisions of the Companies (Guernsey)
Laws, 1908 to 1973. The constitution of the Company is defined in its Memorandam and Artificia of Association.
On incorporation, the Company had an authorised share capital of USS125,000 divided large \$200,000 Shares of 2 cents each. In June, 1961, the Company hand 4,800,800 Shares of 2 cents each in USS10,000 Shares of 2 cents each of USS3,000 on 12th June, 1981 and on 27th November, 1981. All such Shares are now fully paid. The authorised share capital of the Company was increased by Ordinary Resolution, passed on 7th April, 1984, to USS190,000 divided into 7,500,000 Shares of 2 cents each. 1 CORPORATE STRUCTURE

2 ARTICLES OF ASSOCIATION The Arricles of Association of the Company (which were amended with effect from 1st black, 1984) contain provisions to the following effect.

Appointments
The Directors may appoint managers and investment missess of the Company's administrative affairs and the investment and reinvestment of the Company's investments and may entrust to and confirm a not sand; managers or investment adviser; six of the functions, dunes, powers and dispression exercisable by them as Directors in relation thereto (other than the powers to make cells or forfest Shares) upon such terms and conditions including the right to remuneration populate by the Company and with each powers of delegation and such restrictions on they think fit and either collisionally with or to the exclusion of their own powers.

The terms of any contract or antisyment entered into by the Company appointing any sumagest of investment advict than the original appearance entered into price to the losind flow of Shores), and my vertically make after the losind States to any such contract or agreement these in force (unchange any such contract or agreement these in force (unchange any such contract opening and such as about the contract of agreement, shall be subject to appear Originary Resolution, PROVIDED TEAT no such approval shall be proprieted should—

(a) the terms of any new actingement entered into fire the appointment of may managers or investment advisors not differ materially from place in force with the former represent or investment advisors on temperature of their respective appointment; of the case of the variation to an existing agreement appointing any anumgers or investment advisors, the managers or investment advisors (as the case can be caused that such variation is necessary to expedient having report to the provisions of any legislation actual or proposed or the Company, the Antinon; the managers and the investment obvisors and the investment of the notice that the such variation does not necessary or any of them and does not operate to release the managers to any material extent force any responsibility to the Company.

Share Capital

By Ordinary Resolution the Company wasy intra shares with any special rights that the Company wasy determine, without prejudice to the rights attaching to any existing theres. The Company may by Ordinary Resolution issue preference shares on such terms as before such issue the Company by Special Randolludi may determine. If the share capital is deviated into different classes of shares, rights attaching to a particular class may be varied only by a three-quarters majority of that class consenting.

The Board, unless the Company on General Meeting declares otherwise, shall have the ability to allot, grant options over or otherwise dispose of unissued there so such terms as a sees fit.

The Company may to Chelicary Resolution leaves in a few sections.

(iii) The Company may by Ordinary Resolution increase its stare capital by such sum to be divided into such amount as it so resulted as such assue the Company may residive thirtie-shape, be offered to exigting members procupe, and otherwise the new may be dealt with as if they formed part of the original explanation and not be subject to all existing provisious relating to the plant.

(i) The Company in General Meeting may declare dividents to be paid out of the profits of the Company. Unless the rights and texas attached to any theres otherwise provide, all disadents shall be declared and paid according to the autount paid up on the chares in respect whereof the dividend is paid (but payment to advance of calls shall be ignored in determining the instance paid up). Dividends will be paid pro retrainment of the amount paid up of the share during of which the dividend is paid. The Board may also declare and pay with tone justifiable. The distribution of surpluss arising from the realisation of investmen

(ii) The Board may deduct from dividends payable to any state-holder anatomes owed by him to the Company in respect of shares and may recain the dividend on any states on which it has a lieu.

may recome one conversed tax may manuscome a men.

(iii) After twelve years any dividence, which have not been chained shall be fordeleed and covers to the Company and whilst a the dividence may be used by the Board for the benefit of the Company, uptil classes.

(d) Rights of Sharsholders in a Wording Up

(i) In the event of a winding up the liquidator may, by Extraordinary Resolution, be authorised to divide among the members any part of the assets, and may vest any of the assets in trusteets upon trust for the benefit of the numbers as the liquidator thinks fit.
 (ii) The sixets shall be distributed ratiality according to the amonat paid upon the sharts (subject to the rights). However, if expedient and with the necessary consents or sanctions, the liquidator may divide the assets other than in accordance with the existing tights of the members, and can enclude ay greater any class.
 (a) Vottor Rhake of Members

neral Montings.every nember pattent in parson or by attouppy shall have one vote. On a poll every person present in person or many or by proxy shall have one vote for each Share beld by him subject to only special voting powers or restrictions for the time attached to any shares which may be subject to special conditions.

Share Corollouse:

All members shall be entitled to a share cardificate for all shares of one data. The Articles provide that where a shall jointly by several persons the Company shall not be bound to later more than one certificate, delivery of a certificate to one of several joint holders being sufficient delivery to all such holders.

joint holders being sufficient delivery to all such holders.

(ii) If a there certificate is defaced, test or destroyed it may be reserved on such terms (if may) as to evidence and indimnsity and the payment of our-of-pocket expenses of the Company of investigating evidence as the Board thinks it.

(g) Calls and Instalments on shares and Forfeitner

(i) The Directors may from time to time by resolution make calls upon the members in respect of all or any unbergy suppaid on their shares (whether on account of nominal value or by way of premium) and not by the conditions of ellotment thereof made payable at fixed times. Each member shall, subject to receiving at the usual 28 days, source from the company on the continue or times and place of payment, pay to the Company at the time or times and place of payment, pay to the Company at the time or times and place of payment, pay to the required to accept any payment in advance of a call or, it they do so, to pay say interest thereon.

(ii) The Directors shall not be required to accept any payment in advance of a call or, it they do so, to pay say interest thereon. Any sum called in respect of a share which is not paid on or before the date for payment shall (miles; the Directors of determine) attract interest from that date until the time of actual payment of such rate (not exceeding 20 per const. per such the Directors may determine).

In the case of joint holders the liability to pay a call and inscreet thereon shall be joint and several. The Company shall have a first and paramount lieu on every unputd or partly paid share for all moneys called in capact thereof, and for all the debts and fashilities of the holder thereof to the Company.

(vi) If a member fails to very the amount of a call or may past thereof on the dase for payment, the Directors may at any time thereafter serve on him not less their 27 days' notice requiring payment themosf together with account diversal on or before such twenty-sevent day and at such place as is specified in the pance, which shall almost up the default the shares in question will be liable to forfeiture.

twenty-sevents ony most state place as its specimen in the Another, which shot state that in default the share is question will be flable to forfeiture.

[vii) If the requirements of the last mentioned notice are not complied with, the relevant shares may, at any time thereafter before payment has been made, be forfeited by resolution of the Board whereupon they may be sold, to alloued or otherwise disposed of to such person and on such terms at the Directory think fit.

(viii) A person whose shares have been forfeited shall cease to be a member in respect of shore shares but diall netwithstanding the forfeiture remain liable to pay to the Company all moneys purple by hier to the Company helicituding statement.

(ix) Any stant (whether on account of the nonemal value of the share or by way of prenium) which by the terms of issue of a share becomes payable upon allotment or at any fixed data thail for all the purposes of the Articles be deemed to be a cell duly unde and payable the one which when the statement becomes payable to the purpose of the Articles be deemed to be a cell duly unde and payable the one which when the statement becomes payable to the purpose of the Articles in the particle shall repeat the purpose of the Articles in the particle shall be considered by the terms of a Special Resolution on the Company and a state that the relevant provisions.

All this Articles article is the published the premain of a Special Resolution on the Company that is accordance with Charment in the provision of the Company on the Company of the

The Articles of Association may be altered by means of a Special Resolution of the Company pasted in accordance with Guernery law; namely by a resolution duly proposed and pasted at a Special Resolution by not less than three-quarters of the votes recorded at a Guernal Meeting of the Company and duly confirmed by an absolute majority of the votes recorded at a second Guernal Meeting bald at the entirest fifteen clear days and at the latest thirty days after the first Guernal Meeting. To be whit, accopy of the Special Resolution confirmed by the Royal Court of Guernary and suder the small of the Company has to be sent to H.M. Greiller. The following contracts (not being contracts enterediate in the optimery course of business) have been entered into priorite the date of this document and are or may be material:—

this document and are or may be material—

(i) Management Agreement detted 19th May, 1981 (as amended by a Letter Agreement detted 5th Tuly, 1982 and a Supple

Agreement detted 22th March 1984) between (3) the Common and (2) the Management whereby the Common among

Agreement desed 22nd March, 1984) between (1) the Company and (2) the Managers whereby the Company appointed the Managers, subject to the overall supervision of the Directors and with powers of delegation, to manage the Company's administrative affairs, to act as its Registers and to manage the Company's investment. The Agreement contains provisions indemnifying and exempting the Managers from fightility not due to thair gross negligence or wifiel defined. For the purposes of carrying our their duties under the Agreement certain of the functions, duties, powers and discretions of the Directors are exercised by the Managers. In the event of the itemisation of the Management Agreement, these functions, duties, powers and discretions, duties, powers and discretions to the Directors. The Agreement may be permissed inter alls by either party giving to the other not less than 90 days written notice.

(B) Investment Advisory Agreement dated 19th May, 1981 and a Supplemental Agreement disted 22nd March, 1984 between (1) the Company, (2) the Managers and (3) the Investment Advisors whereby the Company appointed the Investment Advisors brackly the Company appointed the Investment and to the Company or the Managers on behalf of the Company as the file investment are dress recomment and to the order the Agreement comman provisions indemnsifying and companying the Investment Advisors from liability not due to grow negligence or wilful default. The Agreement may be terminated into allow by any party giving to the others not less than 90 days' written notice.

Yenture Capital Advisory Agreement dated 19th May, 1981 (as amended by a Letter Agreement dated the fully, 1983 and a Supplemental Agreement dated the fully, 1983 and a Supplemental Agreement dated the fully, 1983 and a Supplemental Agreement dated the fully observed the Company, (2) the Managart and (3) RINC (then known as New Court Securities Corporation) wheterly the Company appointed RINC to seek out, appraise and monitor improved investments in the United States of America (and, if requested by the Company or the Managart and (5) RINC (then known as New Court Securities Corporation and monitor improved the Company of the Managart and Court for the United States of America) in activities relating to all forms of biomediately presented or manufactoring activities or to the application of high technology is the medical field and to undertake investment research in connection therewith. The Agreement may be terminated into alle by any party giving to the others not legs than 30 days' written notice. terminated one after by any party giving to the others not less than 98 days' written notice.

(b) Canodian Agreement dated 19th May, 1981 and a Supplemental Agreement dated 2nd March, 1984 between (1) the Company, (2) the Managers and (3) to 16. Reducible & Sons (CLL) Limited (the "Custodian") whereby the Company appointed the Castodian to be responsible for the custody of the Company's investments. The Agreement contains provisions indemnifying and exempting the Castodian from Italiatisy not due to negligates or willing default. The Agreement may be terminated inter also by any party giving to the others not less than 90 days' written notice.

retary's Agreement dated 19th May, 1981 between (1) the Company and (2) Hermada Shield Trustee Company Limited to act as its Secretary. The Agreement exempts retary from fishility out due to negligence or will distinct, The Agreement may be terminated inter-ally by either party give be other polless than 30 days' written notice.

to the other not less than 90 days' written notice.

Agreement may be terminated inter alle by either party giving to the other not less than 90 days' written notice.

Agreement chard 50. October, 1981 between (1) the Company, (2) the Managers and (3) Redhatchilds (as amended by a Lotter Agreement chard 22nd March, 1989) whereby the Company and the Managers appointed Redhatchilds in solution to insquered investments, to undertake the financial appraisal of the Company's potential and access investments; in all forms of histochoology research or instundanting activities carried on in the United Kingdon or Emprope and in the order of high technology in the medical field. Rodschilds' frees are to be guide by the Managers are proposed in the Company or Redhatchilds from Bahility not due to good an expension of the company or Radschilds giving to the other not less then 90 days' written notice.

the other not less than \$4 days! withen notice.

Underwriting Agreement duted 28th March, 1984 between (1) the Company; (2) the Directors and (3) Rothschilds under which Rothschilds have agreed, subject have alls to the whole of the issued share capital of the Company being admitted to the Official List, to underwrite the Office and will play to Rothschilds a fee of £10,000 and a commission of 2 per cent. On the subscription price of the Shares insted pursuant to the Office out of which Rothschilds will, on behalf of the Company, pay a sub-underwriting commission of \$1 he per cent. On the business and a fee to Cazeapor do. The Company will reimbures all costs and expenses incarped by Rothschilds in connection, with the Offer and will bear all other expenses of the Offer. The Agreement also contains warranties and indemnities in favour of Rothschilds from Rothschilds from Rothschilds on 28th March, 1984 with the set starting proceeds of the Offer for delivery on 18th April, 1984 on Rothschilds' same form for forward surface.

s addition to the management fees and expenses set out in the paragraph headed. "Management Fees and Expenses" abo longuary bears the following from—

Company notes the tollowing tense—

(i) The Agreement appointing the Custodian of the Company provides, interactic, for the payment by the Company to the Cost of a few at the rate of 0.15 per cent. per assume on the value of the next seasor of the Company provides to the Company provides to the Company provides to the Company to the Secretary of the Company to the Secretary and the Secre

a nor no or agreen from time to supe, by the Company and the Secretary and to be braind on the time spant by the Secretaring its duties node; the Agreement subject to a utilizem name it for of USS1,000.

(iii) The above Agreements and the Agreements appointing the Managers, the Investment Advisors and RINC also provide, for the reimburstenest by the Company of our-of-poster expenses and, subject to certain saleguards for the Company of the northest saleguards for the Company of the Company. The Agreement appointing Rotherhilds also provides for the by Rotherhilds of certain of such commissions and benefits, subject to similar safeguards.

by Rothschilds of certain of such communicate and neneura, not per to summer surrogeness.

(iv) The Director's fees totalling approximately USSA7,000 per annum, pleat stringeness fees.

(vi) Fees of consultants totalling approximately USSA2,000 per annum, pleat stringeness fees.

(vi) Pees of members of the Valuation Advisory Board totalling USSA,000 per annum plea asterdance fees.

The Managers and the Castadian have appear that their fees in respect of the period from its December, 1983 to SighMay, 1984 will be divided into two parts; the forst remaining from 1st December, 1985 to Hist Apple, 1984 in respect of which the fives of the Planagers and the Castadian will be calculated on the value of the net sustee of the Campany at 20th March, 1984 as not out in this Prospectes. The fees for the remaining period will be based on the analysis of the next sustees of the Campany as at HistMay, 1984.

5 DIRECTORS

5. DIRECTORS There are no existing or proposed service ignorance between the Company and any of its Directors. A Director is not required to hold any Shares by way of qualification. There are no provisions requiring Directors to resire at my specified age.

(A) Director Remonstration.

The Articles of Association of the Company contain provisions to the following effect:

The Directors shall be existled to such manuscration as they may from time to time determine. Such remonstration shall be decided to accuse from day to day. The Directors and any alternated Directors may also be paid all travelling, both mediather expenses properly incred by them in attending and attenuing from an entering of the Directors or any committee of the Directors or General Rectings of the Company or in countering with the business of the Company. The Directors may be addition to part remonstration gunt appeals remonstrated by Directors or the remonstration of the Company.

(B) Transactions with Directors

the Company or in constitution with the business of the Company. The Directors way he addition to pack remineration to any Directors who, being called upon, shall perform any appeals or excuss services to or at the request of the Company.

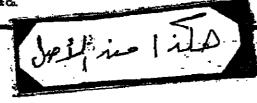
(B) Transactions with Directors

The Articles of Association of the Company contain governous to the following effect:—

(I) (a) A Director who is in any way, whether diseased in buildnessly, intercented in a contract or arrangement shall disclose the assure of his interest at a menting of the Board, but the mature of his interest many to decisived by bird at the meeting of the Directors at which the question of entering into the contract, or arrangement is fine taken into consideration or if the Directors are which the question of entering into the contract, or arrangement is fine taken into consideration or if the Directors used to the date of this meeting into the contract, or arrangement, then at the next meeting of the Directors had affair be becomes so interested, and in a case where the Director becomes to interested in a contract or arrangement affair it is include, then at the first meeting of the Directors the Directors to interested in on any openion company or firm, and it to to be regarded, as interested in any contract which may decreate be made with their company or firm, whill (if such Director stull give the same at a meeting of the Directors or shall the resounded excess to secure that the same his brought to pand read at the next, meeting of the Directors or shall the resounded steps to secure that the same is brought to pand read at the next, meeting of the Directors or shall the resounded steps to secure that the same his hought to pand read at the next, meeting of the Directors or shall the resounded steps to secure that the same his hought to pand read at the next, meeting of the Directors of shall the resounded to secure the same is hought to pand read at the next, meeting of the Directors or shall the resounded steps to secure the state of the same of

sub-stocks while the cost, it is a special to show the special costs and the special costs of the special costs of

7 <u>(\$1</u> 444 25)





(iv) any proposal concerning any other company in which he has interests directly or indirectly and whether as an officer or shareholder or otherwise however, provided that he (rogether with persons connected with him within the meaning of Section 64 of the Companies Act 1980 of Great Britain) is not the holder of or beneficially interested in I per own, or of the voting rights available to members of the relevant company (any such induses being deemed) or of the voting rights available to members of the relevant company (any such induses being deemed or be a justicial of two or more Directors to offices or employments of the Company (any such induses being deemed or be a justicial of two or more Directors to offices or employments of the Company or any company in which the Company is interested such proposals may be divided and considered in relation to case Directors separately and in such case each of the Directors concerned (if not debarred from voting under paragraph (b) (iv) above) is quittled to vote (and be connied in the quorum) in temperator of each recolation except that concerning his own appointment.

(dt) If any question shall arise at any time as to the materiality of a Director's interest or as to the estitioners of any Director to vote and such question is not resolved by his voluntarily agreeing to abstain from weding, such question is not resolved by his voluntarily agreeing to abstain from weding, such question is referred to the chairman of the meeting and his ruling in relation to any other Director's final and conclusive except in a case where the nature or extent of the mercests of such Director has not been fairly disclosed.

(e) The Company may by Ordinary Resolution suspend or relate the provisions of paragraphs (a) to (d) inclusive above to any extent or rathy any transaction not day authorised by reason of a contravention of those paragraphs.

The many of the first particular and the control of the control of

(f) A Director may hold any other office or place of profix under the Company (other than the office of Auditor) is conjunction with his office of Director on such terms as to termine of office, and otherwise as the Directors pay determine, and no Director or intending Director shall be disqualified by his office from contracting with the Company either as render, purchaser or otherwise, nor shall any such contract or arrangement entered into by or on behalf of the Company in which any Director is in the Company for any profit realized by any such contract or arrangement by reason of such Director boding that office or of the fiduciary relationship thereby established.

(g) Any Director may act by himself or through his firm is a professional capacity for the Company, and he or his firm shall be comided to remuneration for professional services as if he were not a Director, provided that nothing herein contained shall authorise a Director or his firm to set as Auditor to the Company.

(ii) Any Director may continue to be for become a director, managing director, manager or other officer or member of any company promoted by the Company or in which the Company may be interested or associated in business, and no such Director shall be ancessed to for any remaneration or other bounding received by him as a director, managing director, manager, or other officer or held of owned by the Company. The Directors may engrise the woring power configured by the theorem company, the both of including the exercise thereof is favored or of any resolution appointing themselves or any of them, directors, managing directors, managers or other officers of such company, or voting or providing for the payment of remaneration to the directors, managing managing directors, managers or other officers of such company).

6 BORROWINGS

6 BORROWINGS

Under the Articles of Association of the Company the Directors may exercise the Company's powers to horrow and to charge its assets, but they are required to restrict the borrowing of the Company and to exercise. All unding and other rights or powers of control exercisable by the Company in relation to its subsidiary companies (if my) so as to secure (as regards subsidiary companies so far as by such exercise they can secure) that the aggregate amount for the time being remaining undischarged of all moneys borrowed by the Group (which expression means and includes the Company and its subsidiaries for the time being), inclusive of any freed or minimum prevails on final repsyment but exclusive of intra-Group borrowing, shall not, except with the rights of the Company in General Meeting, exceed an amount equal to the Share Capital and Compositional Reserves, as defined in the Articles of Association).

The expression "moneys borrowed by the Group" includes the principal amount of all debestures of any member of the Group which are not for the time being beneficially owned within the Group. 7 THE MANAGERS

The Managers, a wholly owned subsidiary of Rothschilds, were incorporated under the laws of Guernsey on 18th February, 1969. The Managers have their registered office at St. Julian's Court, St. Peter Fort, Guernsey, Chimnel Islands. Their issued and paid-up capital is \$100,000. The object of the company is to provide a comprehensive management service to both corporate and individual clients.

8 THE INVESTMENT ADVISERS

The Investment Advisers, a wholly owned subsidiary of Rothschilds, were incorporated in England on 19th November, 1964: The Investment Advisers have their registered office at New Court, St. Swithin's Lane, London, ECAP 4DU. The Investment Advisers' issued and pand-up capital is £100,000 and the object of the company is to provide a comprehensive investment advisory and management service to both corporate and individual clients. 9 THE VENTURE CAPITAL ADVISERS

RINC was incorporated under its original name. New Court Securities Corporation, under the laws of the State of Delaware on 20th July, 1967. RINC has its registered office at 306 South State Street, Dover, Delaware, 1990, USA. The object of RINC is to provide investment banking facilities and runnagement advice. RINC is no associated company of Rothschilds.

10 THE BANKERS AND CUSTODIAN

The Bankers and Custodian, a wholly owned subsidiary of Rothschilds, were incorporated under the laws of Guernisey on 6th June, 1967. Their registered office is at St. Julian's Court, St. Peter Port, Guernisey, Channel Islands. Their issued and paid-up capital is £1,000,000. The object of the Bankers and Castodian is to provide a fell range of commercial banking and financial advacity services. 11 THE SECRETARY

Bermuda Shield Trustee Company Limited, the Secretary of the Company, is 40 per cent. owned by Rothschilds and 60 per cent. by The Bank of Bermuda Limited. 12 INDEMNITIES

The Articles of Association of the Company contain provisions indemnifying and exempting the Directors. Scuretary and other officers and servonts of the Company from lability in certain creamstances. They also provide that the Custodian, the Managers, the Investment Advisors and the Venture Capital Advisors shall be entitled to such indemnify from the Company under such terms and subject to such conditions and succeptions and with such entitlement to have recourse to the exerts of the Company with a view to meeting and discharging the cost thereof as shall be provided under the Custodian Agreement, the Management Agreement, the Investment Advisory Agreement (as applicable). 13 LITIGATION

The Company is not engaged in any inigation and the Directors are not aware of any inigation or claims pensing or threatened against the Company. 14 MISCELLANEOUS

(a) Except as disclosed in section 1 above:-no Shares have been issued within the two years immediately preceding the dain of this document of are now proposed to be issued, fully or partly paid, either for cash or for a consideration other than each; and

(ii) no commissions, discounts, brokerages or other special terms have been granted by the Company within the two years improductly preceding the date of this document in connection with the issue or sale of any Shares.

inspectately preceding the date of this document in connection with the instance and any Shares.

(b) No capital of the Company is under option or agreed conditionably or unconditionably to be put under option.

(c) No material assue of Shares (other than to stareholders pro rate to existing boldings), will be made within one year of the publication between without the prior apparent of the Company in General Meeting. No issue will be made which would effectively after the control of the Company or the rature of its business without the prior approval of the Company in General Meeting.

(d) None of the Directors of the Company has an intenset in the share capital of the Company which would be required to be shown in the register maintained under the provisions of the Company series subject to the provisions of that Act. So far as the Directors are aware no person has an interest in 5 per cent. or more of the issued share capital of the Company.

(e) Except as disclosed herein, there has been no material change in the condition, financial or otherwise, of the Company since 30th November, 1963.

(f) Peat, Marwelt. Mitchell & Co. have given and have not withdrawn their written consent to the issue of this document with their report actuded at the form and context in which it is included. (g) The Company has appointed N. M. Robbechild & Sons (C.L.) Limited as its Bankers on the latter's normal banking terms for customers (as regards bank charges, interest and other matters). In addition, N. M. Robbechild & Sons (C.L.) Limited or any of its associated companies may act on its normal terms in relation to the banking and foreign exchange transactions of the Company and retain any profits assungtherefrom.

(h) The Company has not established a place of business in Great Britain. The Company has not established a place of business in Great Britain. The Company has not established a

No change in the nature of the business of the Company is in contemplation.

Our of the current total Directors fees of approximately USSA 1000 per mount. Lord Replachild receives approximately USSA 1000 per mount. Lord Replachild receives approximately USSA 1000 per mount. Lord Replachild receives approximately USSA 1000 per McAndrew and David London receives USSA 500 tames Blatty and Rothschilds (make extent Nicolas McAndrew and David London McAndrew and London McAndrew and David London McAndrew and Lon

teachers).

The States of the Company are currently fixed on the Landembedry Stock Exchange and from time to time dealings have falter place at London. The hast bergains in London, before the calculation of the Net Asset Value per Share at 20th November; 1994, as recorded in The Stock Exchange Weekly-Official Intelligence were on 7th March, 1964 was USS1674 (211.74). Following the admission of the Shares of the Company to the Official List of The Stock Exchange, the Landemberg Stock Exchange issting will be the effectivened.

(I) The provisions of Sections 50 and 51 of the Companies Act 1948 of Great Britain (other than the penal provisions) so far as applicable (having regard to Section 419 of that Act) shall apply to the issue of Shares in pursuance of the Offer.

The following direct James Blau David Leathers David Padwa Aragen, Inc., Applied Biosystems, Inc., Repligen Corporation
Celtrech Limited (alternate), IQ (Bio) Limited, International Plant Laboratories, Inc.
Agrigments Corporation. Any Ices or benefits in respect of such director sips are accounted for to the Company and no Director has any direct or indirec (i) David Padwa receives a salary as Chairman of Agrigenetics Corporation, in which he also has a share
(ii) James Blair is a shareholder of Amgen, inc. and Quene Systems, inc.; and

(in) Edward Ziff is a shareholder in Applied Biosystems, Inc. counts are required for the matters referred to in paragraph 4 of the Fourth Schedule to the Companies Act 1948 of Great

Britam.

(e) None of the Directors has any direct or indirect interest in any assets which, during the two years immediately preceding the date hereof, have been acquired or disposed of by or leased to the Company or are proposed to be acquired or disposed of by or leased to the Company or are proposed to be acquired or disposed of by or leased to the Company.

(p) Save as disclosed in the paragraph headed "Directors" above and in Section 3 of General Information none of the Directors has any direct or information none of the Directors has any direct or information of the Directors has any direct or aircraft or aircraft at the theorem which is significant in relation to the business of the Company.

(q) The printing, accountancy, legal and other expusses of or incidental to the Offer including the less for obtaining a listing on The Stock Exchange and the commission and fee payable to Routschilds as mentioned in Section 3 (vii) above (but excluding the companies on of the per cent. payable to intermediaries in respect of acceptances) are expected to amount to approximately (and only the charged to the share premium arising on the issue or will be defrayed out of the existing resources of the Company.

Save as disclosed in Sections 3(vi) and (vii), no amount has been paid or beneak given (or is proposed to be paid or given) to any

(s) There is no property purchased or acquired by the Company or proposed to be purchased or acquired, which is to be paid for wholly or partly out of the proceeds of this issue or the purchase or acquisition of which has not been completed at the date of issue of this Prospectus. 15 DOCUMENTS AVAILABLE FOR INSPECTION

Copies of the following documents may be inspected at the offices of Linkinters & Paines, Barrington House, 59-67 Greeksun Street, London EC2V 71A during usual business bours on weekdays (except Saturdays and public holidays) until 21st April, 1964:—

(a) the Memorandum and Articles of Association of the Company; (b) the contracts listed in Section 3 above;

(c) the report of Pear, Marwick, Muchell & Co. and their written consent; (d) the Companies (Guernsey) Laws, 1908 to 1973;

(c) the Report and Accounts and the Interior Report and Accounts of the Company for the periods ended 31st May, 1982, 30th November, 1982, 31st May, 1983 and 30th November, 1983.

APPENDEX A Brief details of the Company's Quoted Investments as at 20th March, 1984 Market value of bolding USS Fermentation products Apmonoto Co., Inc. (Japan) Fermentation and separation equipment 376,425 Alfa-Laval AB (Seeden Biotechnology research and development Biotechnology General Corp. (USA) 307,125 Diagnostic products Becton, Dickation and Co. (USA) 2,446,233 Advanced plans breeding Cardo AB (Sweden) 787,750 Monoclonal antibodies for diagnostic at Centocor, Inc. (USA) Biotechnology research and development 630,000 Charon Corporation (USA) 236,375 Biomedical equipment and cell culture products Flow General Inc. (USA) Busechnology research and developme 1.940.625 Generateda Inc. (LISA) 463,750 hnology research and development Genex Corporation (USA) 278,981 873.600 Industrial enzymes Crist Brocades N V (The Nether Kwowa Hakko Kogyo Co., Ltd. (Japan) 887,320 Separation and purfication equapment LKB-Produkter AB (Sweden) 1.122,000 Separation and purification epidement fillipore Corporation (USA) 281,250 Diagnostic kit Manucional Antibodies, Inc. (USA) 288.750 New Brunswick Scientific Co., Inc. (USA) Fermenters and fermentation control equipment 2,971,125 Novo Industri A/S (Denmark) Insulin, industrial enzymes Diagnostic kits, separation and purification equipment 4,234,350 Pharmacia AB (Sweden) 19,619,659

Notes: (i) The brief description of the activities of the perifolio cost Company and does not necessarily represent the principal (ii) The Company's interest in the issued there capital of any of the portfolio companies listed ab

APPENDIX B Brief details of the Company's Unquoted and Restricted [a: Çost ADVANCED MINERAL TECHNOLOGIES, INC. US\$250,000 US\$50,000 250,000 ruble Preferred Shares 25.0% N'A USEN, OU Demand Pote

AMT was formed in 1987 in Socorro, New Mexico to benefit from the expertise of Dr. Corale Brarley, who is a leading research
the application of biosechnological processes to the mining and pollution control industries. The Company provided mininf fund
the application of biosechnological processes to the mining and pollution control industries. The Company provided mininf fund
the application of biosechnological processes to the mining and product target has been selected as a water purification of
the application of the preparation of a detailed business plan. The initial product target has been selected as a water purification of
which will absorb be any metals onto micro-organisms and it is planned that the ayatem should be available for test marketing of
which will absorb be any metals onto micro-organisms and it is planned that the ayatem should be available for test marketing of
which will absorb be any metals onto micro-organisms and it is planned that the available for test marketing of
which will absorb be a preparation of a detailed business planned that the available for test marketing of
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which will absorb be a preparation of a detailed business planned that the available for test marketing of
the available for the available for test marketing of
the available for the available for test marketing of
the available for the availabl AGRIGENETICS CORPORATION

124,027 Shares of Common Stock.

Agrigements, of which David Pada a, a Director of the Company, is Chairman, is a plant scence company based in Boulder, Colorado that is engaged in research into, and in the development, production and marketing of, generically improved seeds and nitrogen-fung that is engaged in research into, and in 1975 and has made a series of acquisitions within the US seed industry. It is now active in most beauting. The company was formed in 1975 and has made a series of acquisitions within the US act industry. It is now active in most than 5° employees, is well established in many geopraphical regions in the USA and had miss of US\$89m, in the year ended 31st August, 1983, research. Agrigentum in the seventh lurgest sectioniques and modern plant generics at its seven research centrus and nine plant breating techniques and modern plant generics at its seven research centrus and nine plant breating statution at the USA with the activity of excepting crop species with superior properties such as disease resistance, drought inference, higher years and increased normanal value. USS1, 34,807 USS1,246,270 APPENDIX B continued

AMCEN, INC. 1.1% US\$515,001 US\$766,984
August bated near Los Angelès, is active in four malpresserch areas; human therapeutics (nuncipally sliphs and gamma interferous); animal health care (voccinies and growth hormopes); speciality chemicals (particularly those involving microbial ovocition of hydrocarbons); and diagnostics. In the lister area Augen has a five year research contract dated May, 1983 with Abbott Laboratories, the world's leading diagnostics, in the lister area Augen has a five year research contract dated May, 1983 with Abbott Laboratories, the world's leading diagnostics company, under which Augen out preceive approximately US\$19m over such period in eachings for realistics would maintening pights. Amgen's first commercial products will causant from the Abbott Cargonator; programme Therapeutic products closes to commercialisation are thicken growth hormope and a synthetic analogue of mitriferon which incorporates the mean molecular features of the various sub-types of natural alpha interferon. This is claimed to show greater antivitial efficacy than any known partial alpha interferon. The company's there's are traded at the US over-the-counter market.

In the year ended 31st March, 1983, Amgen reported pressues of US\$1.5m (1982; US\$2.7m), and as net loss before tax of US\$7.1m, 1982; US\$7.1m 1983 including net interest income of US\$1.3m, and a net loss before tax of US\$3.4m.

APPLIED BIOSVSTFEASC TMS 128,750 Shares of Common Supek 1.1% US\$515,001

APPLIED BIOSYSTEMS, INC.

295,000 Shares of Common Stock US\$700,625 295,000 Shares of Contaton Stock

Applied Biosystems is an instrumentation and fine chemical company located near San Francisco which began operations in 1981 initially to manufacture and market an automated provein sequencer and an automated DNA synthesiser, together with associated chemical reagents. A large number of laboratories involved to recombinant DNA research are lakely to need both of these types of instruments as they permit the determination of the sequence of animo-acids in a protein (and so the possible DNA sequences coding for this protein) much more rapidly than was previously phasible and the synthesis, quickly and reliably, of large numbers of DNA fragments. Applied Biosystems also provides a service in the custom synthesis of DNA fragments and or developing lustruments for the synthesis of protein fragments and for the sequencing of DNA. The company is working with Genetic Systems (see below) on products with diagnostic applications, notably certain fluorescent dyes (based on technology lacrosed from Stanford University) which can be used as immunocates places. The company's shares are traded in the US over-the-counter market.

For the year coded its July, 1960, Applied Biosystems reported sales of USS 5 m., (1962: USS 1.2m., loss). The company recently reported anisotical results for the six months ended 31st December, 1963 showing sales of USS7-2m. and net income before tax of USS2-1m. US\$4,530,488

CATALYTICA ASSOCIATES, INC.

S71,430 Convertible Preferred Shares 10.4% US\$1,000,002 US\$1,000,002

Catalytica was founded in 1974 and is involved in the field of catalysis, providing contract research and multiclient studies and managing joint venture projects with leading international chemical and petrochemical companies. Catalytica, which is based in Motuntain View, Catriornia, has established a multi-disciplinary team of some 50 scientiss, engineers and support staff, as well as highly somewhater team of some 50 scientiss, engineers and support staff, as well as highly somewhater that the molecular leasures of enzymes into organo-metallac catalysts for use in a number of commercially important chemical processes.

CEAL TRACE LANGE EAST STATES AT 11.172 USSS.017,664 USSS.09.005 Ceffeeth, based in Stough, was founded in 1980 and is the UK's leading specialist busechoology company. It has a staff of 130 and is glorady earning revenues from the sale of respents for blood-typing and for the purification of guerferon. Celltech has a collaboration agreement with the UK Medical Research Council (MRC) whereby Celltech has certain rights to products and processes emerging from the MRC's research on recombinant DNA and monoclonal antibodies. Celltech signed an agreement in September, 1983 with Sankyb, Japan's second largest pharmacountical company, for the development of two therapeuts: agents, tastue plasminogen activator and calcinomia. The recently-formed joint venture with Boots (a listed UK pharmacouncil company) has launched us first two CW VENTURES

3.1% US\$333,334 Eminer Farmers in a US centure capital fund formed in July, 1982 by Channing, Weinberg & Company, Inc., a leading US farm of health care consultants. The fund raised USS72.5m (one third of which has so far been drawn down) for myestment in health care companies presently at an early stage of development. By 31st December, 1983 CW Ventures had reviewed 33 investment proposals and had made investments to indige approximately VSSS. Inc. in ten companies. The Company has an outstanding computation to invest a sturber USS666,666 in CW Ventures, of which USS333,333 is due for payment on 13th April, 1984. DNA PLANT TECHNOLOGY CORPORATION

DNA PLANT I ECHNOLOUS CERTONNA 1807

2.9% USS99,025 USS1,065,624

DNAP, whose main facilities are in Comminison, New Jersey, is an agricultural biotechnology company. Dr. Sharp and Dr. Evans, the chief strentists, were former employees of Campbell Soap and have particular expertise in plant tosue culture and protoplast feation. The company is undertaking research in a wariety of areas/(tomations, tropical plants, carrols, etc.) for many large multimaturnal companies such as Campbell Soap, General Foods, BAT Industries and Hersbey. The company is engaged in the development and marketing of plant-related consumer and industrial products. A joint venture with Koppers was recently amounted for the development and commercialisation of diagnostic hits for plant disease. The company's shares are traded in the US over-the-counter model.

In the year ended 31st December, 1982 DNAP reported revenues of US\$1.2m. (1981; N0), including net interest income of U\$51 0m. (1981; N0) and a net loss before tax of U\$80.4m. (1981: U\$80.1m.). The company recently reported annufaced results for the year rended 31st December, 1983 showing revenues of U\$\$1.5m., including net interest moome of U\$\$0.9m., and a net loss before tax of U\$\$1.1m.

GENETIC SYSTEMS CORPORATION

489,000 Shares of Common Stock USS900,000 USS2,3c2,5c0 USS900,000 USS2,3c2,5c3.

Genetic Systems of Searcle is an important company in the application of monoclonal antibodies to the diagnosis and treatment of human diseases. One of the company's major areas of product development is the diagnosis and treatment of human diseases. In the company's major areas of product development is the UsA by Syva. the diagnosis are streetly being marketed in the USA by Syva. the diagnosis are subsidiary of Synter, for US pharmaceutical company. Other areas of research by the company include: (f) the diagnosis and greatment of infections caused by autibotic-resistant reaternal majors of research by the company and blood typing for transplants and rensfusions; and (in) the diagnosis and reatment of cancer. The last area of research is the subject of a partnership with Syntex called Oncogén. The company's shares are traded in the US over-the-counter market.

In the year ended 31st December, 1983 Genetic Systems reported revenues of USE1\_in. [1981; USE0.3m.] and a net loss before tax of USE1\_in. [1981; USE0.3m.] and a net loss before tax of USE1\_in. [1981; USE0.3m.] and a net loss before tax of USE1\_in. [1981; USE0.3m.] and an endeather of USE1.3m.

GENZYME CORPORATION 5.5% US\$999,997 274,062 Convertible Preferred Shares Genzyme is based in Boston, but has its principal activities in the UK following the acquisition of two UK companies, Whatman Biochemicals, a producer of inclustrial and diagnostic enzymes, and Koch-Light Laboratories, a manufacturer of fine chemicals for laboratory use. Genzyme intends to use these two acquisitions as a base for developing its interests in biotechnology in collaboration with a multi-disciplinary group of professors at Harvard University and the Massachusetts Institute of Technology. IMMUNEX CORPORATION

5.0% US\$752,302 300,320 Shares of Common Stock US\$1,238,820 Subjects saires or company society of the poly cellular immunology and recombinant DNA technology to the development of new types of diagnostic and therapeuric products for the treatment of cancer and other diseases. Initial research has been focussed on specific hormones within the immuno system called lymphokines. The company's next advanced therapeuric product is unterleukin-2 ("IL-2"), a lymphokine which could significantly enhance the body's latent defences against disease. The company has a research contract with and ficences with Hoffmann-La Roche for the development, manufacture, clinical testing and marketing of IL-2. The company's shares are traded in the US over-the-counter market.

For the year ended 31st December, 1982 immunes reported revenues of US\$1.1m. and a net loss before tax of US\$0.9m. The company recently reported mandimed results for the year ended 31st December, 1983 showing revenues of US\$1.7m. and a net loss before tax of US\$1.7m.

360,000 Shapes of Common Stock
3.6%
US\$1,000,000
US\$1,105,247
Integrated Genetics was founded near Boston in February, 1981 and is involved in the application of recombinant DNA technology to the report and diagnostic products. The latter all involve DNA hybridisation probes, an emerging diagnostic technique which utilizes labelled bragmens of synthetic DNA to detect or identify specific gene sequences. Integrated Genetics has developed prototype tests for salingoned[a) for use in the food grotestagin industry), cytomegalowirusand hegating B\_and is working on a genetic streening tool for cystic florisk. The substituted is not in the substituted by several major US food companies. The rapeutic products include fertility hormones and tissue plasminogen activator, an enzyme which dissolves blood clots. The company's shares are traded in the US over-direcounter maybe.

For the year-ended 3 lst December; 1982 integrated Genetics reported revenues of US\$1.1m. (1981; US\$0.1m.), including not interest income of US\$0.5m. (1981; US\$0.5m.), and a not loss before tax of US\$1.3m. (1981; US\$0.5m.). The company recently reported manadized results for the year ended 3 lst December, 1983 showing revenues of US\$3.0m. including not interest ancome of US\$1.2m., and a not loss before tax of US\$2.2m.

Colmore Centre, 103 Colmore Row

Birmingham B3 3NS.

New Court,

London EC4P 4DU.

Please pin : cheque here

of the application money or any surplus thereof.

London EC2P 2BD.

INTERNATIONAL PLANT LABORATORIES, INC.

PLANT GENETICS, INC.

51% US\$567,000 U\$\$567,000 International Plant Laboratories as the US parent company of Twyford Plant Laboratories, near Glastonbury in Somerset, a recognized leader in the tassue culture and micropropagation of a wide range of plants. Twyford, mint 1980 a subsidiary of Arthur Gultiness & Sons, has been at the forefront of this technology since 1959 and n now capable of reproducing over one bundred different plant spaces in what is believed to be the largest updependent plant issue laboratory in the world. The company employs 80 people and revenues were US\$1. Itm. in the year ended 11st May, 1983, 90 per term, of which were drived from exports. Until now Twyford has concentrated on ornamental plants but is moving more into food crops such as tomatoes and cucumbers.

IQ (BIO) LIMITED 11.9% 12551,241,702 US\$1,217,139 1,925 Ordinary Shares 1 (9) of Cambridge has developed a process for improving the sensitivity of enzyme-based diagnostic tests, thereby making them much more acceptable as substitutes for tests using radionsolopes. The company was entablished in 1961 at the unitrative of the founders of Acorn Computer Group, a leading UK personal computer manufacturer, and has uself developed computer software for use in many types of automated diagnostic tests besides those incorporating its own process.

487,500 Convertible Preferred Shares US\$1,950,000 Plant Genetics is a plant scenare and agricultural products company in Davis, California that is combining conventional plant breeding with cell and molecular busings and encapsulation delivery systems. The company has developed proprietary technology for the encapsulation of seeds and for the production of "synthetic" seeds which can incorporate nutrients and agricultural chemicals. Plant Genetics is currently setting improved tomato and contours seed, potato microliubers and transplants.

40,000 Convertible Preferred Shares 60% USSS00.000 Opene Systems of Parketsburg. West Virginia, is a US manufacturer and distributor of laboratory equipment. The company specialises in sophisticated products for biomedical research including cryopreservation freezing systems, fermentation equipment, cell culture incubators and orbital shakers.

REPLICEN CORPORATION 350,000 Series 'A' Convertible Preferred Stock 105,300 Series 'B' Convertible Preferred Stock

Repligen was founded in May. 1981 in Cambridge, Massachusetts by two Professors at the Massachusetts Institute of Technology Alea Such and Paul Schimmel. Its reveauch activities include a joint programme with Gillette, an investor in the company, to develop personal care products which incorporate applications of biotechnology, a joint programme with FMC to develop basicgies, and the development of a proprietary production process for a protein with cancer therapy potential. VESTAR RESEARCH, INC.

229, Ino Series 'B' Preferred Stock EV, no series is preteried stock. US\$1,374,966 US\$1,374,966 US\$1,374,966 Vesiar of Pasadena, California is a company formed in 1981 to develop commercial applications of a microencapsulation technology involving iposomes. Uposomes are microscopic spherical dropicts of a water-based solution encased in a lipid coating. The lipids used are naturally-occurring fatty materials so that these isposimes are becompatible and can be used to deliver drugs or radioscotopes which the body for therapenture or diagnostic purposes. There is substantial potential for the use of uposomes, for example for the delivery of tonic ami-cancer drugs and in the treatment of animal diseases.

WMC (RESOURCE RECOVERY) LIMITED 7/L-500 Ordinary Shares US\$574,800 WMC of Bristol has developed a process for the treatment of domestic refuse and sewage sludge to produce a uniform fibrol which can be used as a substitute for hortscultural peat or as a raw material for the manufacture of chipboard. Methane during the process provides all the necessary power and there is no perceptible effluent or odour. The system offers a neconomic and environmental advantages over conventional methods of retuse disposal and is being marketed to municipal.

US\$23,197,705 U5529,969,639 Total

"Note: With the exception of the investment in CW Ventures, the equity interest represents the proportion of the share capital of each investment owned by the Company assuming that all conversion rights into Common or Ordinary Shares and subscription rights are exercised.

APPENDIX C

nary of Net Asset Value per Share as at 20th March, 1964 LISS Quested, at market value
Unquoted and restricted, at Directors' valuation 39,619,659 29,969,639 Cash, bonds and certificates of deposit (net of liabilities) 11,308,538 68,897,826 US\$13.24 (£9.21)

Note: The Net Asset Value per Share has been prepared using accounting policies consistent with those adopted for the period ended 30th November, 1983 eacept that a discount of 25 per cent has been applied and only to that part of the holding of restricted investments as comprises restricted shares (see the note to the paragraph headed "Exacting Portfolio").

PROCEDURE FOR APPLICATION Applications must be for a minimum of 50 Shares and thereafter in the foll

Applications for over \$0.000 Shares and not more than 1.000 Shares
Applications for over 1.000 Shares and not more than 1.000 Shares
Applications for over 1.000 Shares and not more than 5.000 Shares
Applications for over 5.000 Shares and not more than 50.000 Shares
Applications for over 20.000 Shares and not more than 50.000 Shares
Applications for over 50.000 Shares and not more than 50.000 Shares
Applications for over 50.000 Shares in multiples of 10 Shares in multiples of 100 Shares in multiples of 500 Shares in multiples of 1,000 Shares in multiples of 5,000 Shares in multiples of 10,000 Shares Each application must be made on the Application Form provided and be forwarded to National Westminster Bank PLC, New Laure Department. PO Box No. 79, 1 Process Street, London ECLP 2BD so as to acreve not later than 10 a.m. on 12th April, 1984 accompanied by a cheque or banker's draft.

accompanied by a cheque or braiker's draft.

Cheques or banker's drafts must be drawn in sterling on a branch of a bank which is either a member of the London or Sconish clearing bouses or has arranged for its cheques to be cleared through the facilities provided for the members of those clearing bouses, for the full amount payable on application. Cheques must be payable to "National Westminster Bank PLC" and crossed "Not Negotiable". A separate cheque or draft must accompany each Application Form. Photocepies of the Application Form will not be accepted.

Acceptance of applications will be conditional on the Council of The Stock Eachsinge admitting the Shares to be issued to the Official List not later than 18th April. 1984. Moneys paid in respect of applications will be returned without interest if such admission is not granted by that date and in the meanting will be returned by National Westminster Bank PLC in a separate account.

granted by that date and in the meantings will be retained by National Westmanster Bank, PLC in a separate account.

All chaques are liable to be presented for payment on recept and the right is reserved to retain Letters of Allotment and any surplus application moners pending decrance of applicants; cheques. Due completion and delivery of an Application Form accompanied by a chaque will constitute a warranty that the chaque will be honoured on first presentation; attention is drawn to the declaration in the Application Form to that effect. The right is reserved to reject any application or to accept any application in particular to reject multiple or suspected multiple applications. The right is also reserved to treat as valid any applications which do not tolly comply with the condutions set out in the Application Form. If any application is accepted, the amount paid on application will be returned without interest in each case by cheque through the post at the applicant's risk.

Preferential consideration will be given to applications forms that choices of the Company on the Register at close of business in Guerrascy on 28th March, 1984 for up to a total of 440,000 Shares (representing 20 per cent of the Shares being offered for subscription), if made on the special pink Preferential Application for over 100 Shares to a multiple or 10 is Shares on 100 Shares to a multiple or 10 is Share such as particular forms made available to them. Such applications must be for a minimum of 30 Shares or a multiple of 10 is Share such as or 100 Shares, such aspectations, as determined at the discretion of Rothschilds, will be aggregated with other applications.

Fully paid renounceable Letters of Alloiment in respect of Shares allotted will be sent by post to successful applications at their risk by

Fully paid renounceable Letters of Alkoiment in respect of Shares allosted will be sent by post to successful applicants at their risk by not later than 18th April, 1964 and the last date for registration of renonciations will be 18th June, 1964. Share certaficates will be despatched by post at the risk of the person(s) catalled thereto on 13th July, 1964. Pending the issue of definitive certaficities, instruments of transfer of Shares will be certafied against the register. It is expected that dealing in the Shares will commente on 19th April, 1984.

A commission of laper cent, of the amounts accepted on successful applications will be paid to stockbrokers, banks and other intermediaries in respect of Application Forms bearing their stame.

AVAILABILITY OF COPIES Copies of this document with Application Forms attached may be obtained from:

Cazenove & Co., N. M. Rothschild & Sons Limited, 3 York Street, 12 Tokenhouse Yard,

Bank PLC, 80 George Street, Birmingham City Office, New Issues Dept. PO Box No. 79, PO Box No. 87,

Edinburgh, EH2 3DZ. 32 Com Street

Bristol City Office PO Box No. 238,

14 Blythswood Square, Glasgow, G2 4AQ.

Leeds City Office, PO Box No. 154. 8 Park Row

FOR OFFICE

USE ONLY

1. Allotment No.

2. Number of Shares

4. Amount received

3. Number of Shares allotted

N. M. Rothschild & Sons (C.I.) Limited,

PO Box 58, St. Julian's Court. St. Peter Port

Guernsey, Channel Islands.

SUBSCRIPTION LISTS WILL OPEN AT 10 a.m. ON 12th APRIL, 1984 AND MAY BE CLOSED AT ANY TIME THEREAFTER. This form when completed should be forwarded to National Westminster Bank PLC, New Issues Dept., PO Box No. 79, 2 Princes Street, London EC2P 1BD, to arrive not later than 10 a.m. on 12th April, 1984 together with a cheque or draft, drawn in sterling on a branch of a bank which is either a member of the London or Scottish clearing houses or has arranged for its cheques to be cleared through the facilities provided for the members of those clearing houses, for the full amount payable on application. Cheques must be made payable to National Westminster Bank PLC, and crossed "Not prepriately be a payable on application."

| and crossed. Not negotiable. A separate cheque of trial must accompany each approximate. |  |
|--|--|
| Biotechnology Investments Limited  |  |

Offer for Subscription of 2,000,000 Ordinary Shares of 2 cents. each ("Shares") at £9.15 per Share payable in full on application. **Application Form** 

Amount due on Application Number of Shares applied for

To: Biotechnology Investments Limited (the "Company") and N. M. Rothschild & Sons Limited I'We represent and warrant that due completion of this Application Form accompanied by a cheque constitutes a representation and warranty by me'us that such cheque will be paid on first presentation and I/we acknowledge that any allotment to me'us is strictly on this understanding.

Having paid the above-mentioned sum, being the full amount payable on application for the above-stated number of Shares, I/we offer to subscribe for that number of Shares of the Company and I/we agree to accept the same or any smaller number of Shares in respect of which this application may be accepted upon the terms of the Prospectus dated 7th April, 1984 and subject to the Memorandum and Articles of Association of the Company. In consideration of your agreeing to accept this application upon the terms and subject to the conditions of the said Prospectus I/we agree that this application shall be irrevocable until 19th April, 1984 and that this paragraph shall constitute a collateral contract between me'us and yourselves, which shall become binding upon despatch by post or delivery of the Form of Application to National Westminster Bank PLC, New Issues Department. LiWe agree that, in respect of those Shares for which my/our application is not rejected in accordance with the terms of the said Prospectus, notification to The Stock Exchange of the basis of allocation shall constitute acceptance of my/our application and the basis. I/We agree that this application and any acceptance will be governed by and construed in accordance with English law.

I/We authorise you to send a renounceable letter of allotment in respect of such Shares or such lesser number as may be allotted and/or a cheque representing the balance of any application moneys due to metus by post at my/our risk to the (first) address written below and I we hereby authorise you to place my/our name(s) on the Register of Members of the Company as the holder(s) of such of the Shares as are not effectively renounced. person (as that term i Signature (1)\_

Joint Applicants must sign below.

-----

I/We warrant and represent that I/we have observed and complied with all requirements and obtained all consents required for this application to be made by any jurisdiction to which I/we may be subject and I/we hereby declare that the Shares are not being acquired directly or indirectly by a United States reproduced to the left of the said Prospectual.

| December 200 recognition.   | 1                                    |
|---|--------------------------------------|
| Surtame and Designation (Mr., Mrs., Miss or Title)  Forename(s) in full.  | 5. Amount payable on Shares allotted |
| Address in full.  (A corporation should complete this Form under the hand of a duly authorised official who should state his capacity.) | 6. Amount returned                   |
| s) in full  | 7. Cheque No.                        |

| (2) Signature   |   |
|---|---|
| Surname and Designation (Mr., Mrs., Miss or Title)  | Forename(s) in full                                   |
| Address (in full)   |   |
| (3) Signature   |   |
| Surname and Designation (Mr., Mrs., Miss or Title)  | Forename(s) in full                                   |
| Address (in full)   |   |
| (4) Signature   |   |
| Surname and Designation (Mr., Mrs., Miss or Title)  | Forename(s) in full                                   |
| Address (in full)   |   |
| YOU'ARE ADVISED TO ALLOW TWO DAYS FOR DELIVERY THROUG<br>CLASS MAIL. THE COMPANY RESERVES THE RIGHT TO PRESENT A<br>RECEIPT AND TO WITHHOLD ALLOTMENT LETTERS AND EXCESS A<br>CLEARANCE OF APPLICANTS' CHEQUES. | ALL CHEQUES FOR PAYMENT ON APPLICATION MONEYS PENDING |

No receipt will be issued for the amount paid on application but an acknowledgement will be forwarded in due course by renounceable letter of allotment in respect of all or some of the Shares applied for and/or return by cheque through the post

### **UK COMPANY NEWS**

# Fleming forms Japanese fund and raising £42m

Robert Fleming, the merchant bank, has formed the Fledgeling yen (£150m) in annual sales.

Japan Investment Company, a Bermuda based investment trust, and is offering 12m units of five appreciation, in companies with a preciation, in companies with a preciation, in companies with a preciation.

Jardine Fleming will manage the fund which will be invested in Japan's small companies sec-tor. It expects to take advantage of the recent relaxation of regulations by Japan's stock ex-changes allowing greater invest-ment in the second tier market of nearly 450 small to medium-

of nearly 450 small to mediumsized companies.
Major changes in the regulation of Japan's over-the-counter
market are expected to result in
a larger and a more active market. Japan's venture capital
industry is also developing and
providing a growing number of
opportunities to invest in unquoted companies.
Robert Fleming says that all
these developments should contribute to a more diversified and
active small company sector for

tribute to a more diversified and active small company sector for investors in Japan. It intends to invest up to 20 per cent of the funds in unquoted companies, A small company is defined generated by the small company is defined generated

TAXABLE PROFITS of Exeter

After net Interest paid of £200,000 (£80,000 received) and tax, net profits were down from £861,000 to £570,000. The final duidon to

dividend is maintained at 4.5p

net for a same-again total of 7p per 50p share, which absorbs £213,000 (£210,000). A one-for-

four scrip usue is also proposed. Shareholders' funds increased

from \$4.04m to £4.51m

NEW ISSUE

Exeter

**Building** 

downturn

and is offering 12m units of five appreciation, in companies with shares and one warrant to raise high technology profile including communications equipment, computer systems, specialist elec-tronic components and precision engineering. Other sectors con-sidered to have potential include the leisure industry and specia-

lised distribution services. The company will take a maximum stake of 20 per cent in any one company and will not invest than 10 per cent in any one investment.

Robert Fleming has placed three quarters of the offer. The remaining 15m shares and 3m warrants are offered in units of 5 warrants are onered in units of 5 shares and one warrant at U.S.S5 (£3.50) payable as to 40 per cent on application, with 30 per cent due by October 5, 1984 and the balance of 30 per cent by April 5, 1985.

ALTHOUGH LAST year was somewhat dominated by Bath and Portland Group's with-drawal from civil engineering,

most of its other main businesses. And these are the ones on which the group's future prosperity will now be founded, Mr David Macdonald, the chair-

man, told members at the AGM.

Thurgar Bardex, plastic pro-

lucts manufacturer, incurred higher pre-tax loss for 1983 of

£25,000 against £4,000, despite a

£38,000 profit in the second half.

Profit before interest of share are shown £205,000 (£204,000) was down at against a 2.22p loss.

These Notes having been sold, this announcement appears as a matter of record only.

U.S. \$100,000,000

The Long-Term Credit Bank of Japan Finance N.V.

11%% Guaranteed Notes Due 1989

Unconditionally guaranteed (as to payment of principal and interest) by

The Long-Term Credit Bank of Japan, Limited

(Kabushiki Katsha Nippon Choki Shinyo Gunko) (A Japanese Carporation)

TAXABLE PROFITS of Exeter Building & Construction Group declined from £883,000 to £659,000 m 1983, following the half-time reduction to £327,000, against £381,000. Turnover for the year of this USM company rose by £1.07m to £34.97m.

A Parid Mardonald the chain

LTCB International Limited

**Bankers Trust International Limited** 

Deutsche Bank Aktiengesellschaft

Lehman Brothers Kuhn Loeb

Morgan Stanley International

Orion Royal Bank Limited

ary, Flarris Upham & Co.

Manufacturers Hanover Limited

Chase Manhattan Capital Markets Group

Girozentrale und Bank der österreichischen Sparkassen

Union Bank of Switzerland (Securities) Limited

Morgan Guaranty Ltd

Banque Indosuez

Crédit Lyonnais

COMPANY NEWS IN BRIEF

Jardine Fleming has established a solid reputation for fund man-agement in the Far East includ-ing Japan. Given the competi-tion in this investment area, it tion in this investment area, it has been quick to respond to recent changes which should encourage Japan's small companies sector and market a new fund, Fledgeling Japan Investment, focused on this area. Mr John Drysdale at Robert Fleming says there is no shortage of investment opportunities and Flemings expects to invest the funds without undue delay. The immediate outlook is according to Flemings "unambiguously good" for the Japanese economy and the corporate sector. It has sweetened the offer with a warrant which virtually wipes out

comment

rant which virtually wipes out the expected discount to net worth at which the shares will

£180,000 (£200,000). There was

As last year, there is no dividend. Losses per share are shown rising to 0.19p from 0.03p.

Summer Products made a £172,000 pre-tax profit in 1983, against a loss of £29,000.
Garden furniture and metal

smallware maker, Sumner, a sub-sidiary of Hartons Group since 1981 when Francis Sumner Hold-

ings' non-textile side was demerged, had turnover of £3.23m (£3.1m). Tax took £64,000 (£2.000).

A dividend of 0.63p has been recommended. Earnings per share are shown as 6.57p,

Credit Suisse First Boston Limited Salomon Brothers International Limited

Banque Bruxelles Lambert S.A.

Commerzbank Aktiengesellschaft

Kredietbank International Group

Merrill Lynch Capital Markets

Nomura International Limited

S. G. Warburg & Co. Ltd.

Lloyds Bank International Limited

Swiss Bank Corporation International Limited

Banque Nationale de Paris

Daiwa Europe Limited

First Chicago Limited

### FT Share Information

### called an extraordinary meeting for April 26 to consider changing the company name to Pauls.

**APRIL 1984** 

### **NatWest** assets increase to £60bn

TOTAL ASSETS of National Westminster Bank increased from £54.49bn to £60.02bn at the end of 1983. Advances rose by £3.7bn to £45.17bn, while deposits reached £35.25bo, against

reached £55.25bu, against £50.2bu.

Mr Philip Wilkinson, the group chief executive, writes in the annual report that the main thrust of the group's operations during 1983 was to extend significantly the scope and depth of services provided to personal and business customers.

Despite difficult trading conditions, excellent progress has been achieved, he states. NatWest has entered new markets, developed new products, introduced new technology and opened for business in new territories. "From this platform we are well placed for further development in the coming year," Mr Wilkinson comments.

As reported March 7, the

comments.

As reported March 7, the group raised pre-tax profits in 1983 by 15 per cent from £439m to £503m, in spite of difficult external factors. Provisions for bad and doubtful debts were also up 15 per cent at £264m, against £229m.

Meeting, 15 Bishopsgate, EC, on May 1 at noon. See Lex

The following securities have been added to the FT Share Information Service: Brint Investments Trusts Finance Land) Dewey Warren (Insurance) Morceau Hldgs (Chemicals) Rand London Corp (Mines

Pauls & Whites Pauls & Whites, maitsters and animal food manufacturer, has

# Biotechnology **London listing**

Blotechnology Investments the seling (£43m) trust, thought to be unique in backing only biotechnology ventures, is seeking a London listing for its shares and raising a further £18.3m through an offer for subscription of 2m shares at £9.15 a share.

The offer price of £9.15 per share is the sterling equivalent of the net asset value per share at March 20, 1984 of \$13.24, after provisions for the payment of an interim dividend of 10 cents per share, the market for its share presently traded on the Luxembourg Stock Exchange and with some limited matched bargains in London. The additional funds will be used for new investments and to augment existing ones.

The trust has received a steady stream of applications from companies asseking investors which

ment existing ones.

The trust has received a steady stream of applications from companies seeking investors which are carefully screened by its investment advisers, N. M. Rothschild Asset Management, and a team of eminent scientists who act as consultants.

The majority of its existing 37 quoted and unquoted investments have been in the U.S. because of the higher level and quality of applications. UK investments include a stake in Celltech and two recent investments in small unquoted companies bringing the proportion of the total portfolio in the UK to just under 16 per cent.

The two recent stakes are £850,000 in IQ (Bio) which is investigating a new method of diagnosing diseases from its Cambridge base; and £400,000 in International Plant Laboratories at Twyford which specialises in plant itssue culture.

Net assets of Biotechnology Investments in unquoted companies have been in the U.S. because to participate in a trust which has some of Britain's top scientists advising it and is headed by Lord Rothschild, Cambridge biologist turned banker. The two recent investments in small the proportion of the total portfolio in the UK to just under 16 per cent.

The two recent stakes are £850,000 in IQ (Bio) which is investigating a new method of diagnosing diseases from its Cambridge hase; and £400,000 in IQ (Bio) which is investing a new method of diagnosing diseases from its Cambridge hase; and £400,000 in IQ (Bio) which is investing a new method of diagnosing diseases from its Cambridge hase; and £400,000 in IQ (Bio) which is investing a new method of diagnosing diseases from its cludes investments with some exciting long term properties. It should prove popular with those who want to back the new of the doors of the doors of the London Stock Exchange to Blo-toking for a long term investments. It provides investments. It provides investments in small unquoted companies investors, looking for a long term investments. It provides investments in small unquoted companies in the doors of the London Stock Exchange to pa

### Stalemate at Broken Hill

BY KENNETH MARSTON, MINING EDITOR STALEMATE continues in the No negotiations are taking

a mass meeting of miners had rejected a union call to return to work while the dispute goes to the state Industrial Com-

wage dispute which has resulted in the closure of the three major the companies, notably Broken mines at Broken Hill in New South Wales which produce nearly half Australia's lead and they will resume this week. over 40 per cent of its zinc.

Mr Justin O'Connell, manager of the Broken Hill Mining Managers' Association, said that and shorter working hours while and shorter working hours while the companies have countered with proposals to change work practices in order to emprove productivity.

### **SHARE STAKES**

Crosby Woodfield—Baynard preference, increasing its hold-Securities has purchased 500,000 ordinary (6.94 per cent).

Keep Trust—Director G. P. C. sold 87,903 ordinary and now holds 572,000 (11.21 per cent).

Reliant Motor—Mutinix has purchased a further 45,000 shares and now holds 620,000 (11.19 per cent).

Howard has exercised an option to acquire 2m shares and now holds 3.15m.

DPCE—Thompson Cave and Partners has reduced its holding by 100,000 shares to 150,000.

Gold and Base Metal Kinas— Matherwood has increased its to 1,162,495 shares (18.87 per cent).

Harvey and Thompson — Matherwood has increased its holding to 247,000 (7.85 per cent) shares.

Oxford Instruments—Investors in Industry has reduced its stake

London Investment Trust— in Industry has reduced its stake to 5,755,000 ordinary (12.98 per acquired 100,000 ordinary which together with his f amily's interests, makes a total badding of 4,890,926 shares (5.5 per cent). Blue Bird Confectionary—E. Nassar has purchased 60,00

Superdrag—President R. Gold-stein has disposed of 20,000 ordinary to six members of his immediate family by way of gift. Johnson and Firth Brown— BRP Securities, subsidiary of Bajau, has purchased 260,000 11.05 cumulative convertible

Finance—J. R. Sail has disposed of 424,000 ordinary and now holds 700,892 (9.1 per cent). Wiggins Group—Mr and Mrs Gudgeon have each sold 132,000 ordinary at 50p per share. Sanirral Harn—Jan Yates sold Squirrel Horn-Ian Yates sold 25,000 ordinary and now holds 709,903 (13,92 per cent). Corton Beach (Holdings)—Mr Alex Birchall has acquired, for an undisclosed sum, 200,000 shares (8 per cent).

### BIDS AND DEALS IN BRIEF

Slough Estates has received 99.28 per cent acceptances in respect of 65.09m shares (about 99.28 per cent). Accordingly, Hamiltondon, including the shares the rest of the share capital compute London Properties. The offers have been declared unconditional as to acceptance and will remain open until further notice.

Brixton Estate is to acquire from the Talbot Motor Company 25 acres of land adjacent to its 100 acre Woodside Estate at Dunstable for £1.75m. Outline planning consent has already been granted for an industrial and warehouse estate. The new estate which is to be extensively landscaped will be called Woodside Park. \* \* \*
Hamilton Oil Corporation
announces that at close of busiannounces to at acceptances on Monday it had received acceptances of its offer for Hamilton Oil Great Britain in

### **BOARD MEETINGS**

The following compenies have notified dates of Board meetings to the Stock Exchange. Such meetings are usually haid for the purpose of considering dividends. Official indications are not dividends. Official indications are not available as to whether the dividends are interiors or finals and the subdivisions shown below are based mainly on last year's timetable.

TODAY

Interimes—Glaxo, James Heisterd, lightend Dismilenes, inter-City Investment.

Finals—Commonwealth

rignizate Distingues, inter-City Investment.
Finals:—Cardinal Investment Trust,
Dentiply, Edinburgh Securities, General
Investors and Trustnes, Hunting Petroleum Services, William Jacks, Jenks
and Cattell, Jersey Electricity, Rugby

| Portland Coment.             |           |
|------------------------------|-----------|
| FUTURE DATES                 | . ^       |
| Interioris:— Fisher (Albert) |           |
| Pineapples Dance Studios     | April     |
| Ulster Television            | An- 13    |
| United Wire                  | May 3     |
| Finals:—                     | -         |
| Allebone                     | Apr 18    |
| Ash and Lacy                 | Apr 16    |
| Barrow Hepburn               | Apr 16    |
| Clarke (Clement)             | Apr 24    |
| Gen. Investors and Trustees  | Vbr. 18   |
| Greenbank Industrial         | Apr 16    |
| Haden                        | Apr 11    |
| Hambro Life Assurance        | Apr 17    |
| Laporte Industries           | Apr 26    |
| MCD                          | tAnr 16 i |
| Markheath Securities         | Apr 13    |
| Sindall (William)            |           |
| Sun Life Assurance Society   |           |
| t Amended.                   | APT 18    |
| [AINSTRACE.                  |           |

THE MORTGAGE BANK AND FINANCIAL ADMINISTRATION AGENCY OF THE KINGDOM OF DENMARK 250,000,000 GUARANTEED FLOATING RATE NOTES DUE 1994, SERIES 91 UNCONDITIONALLY GUARANTEED BY THE KINGDOM OF DENMARK In accordance with the terms and conditions of the Notes, notice is hereby given that, for the three roughs interest persed from 5th April, 1994 the Notes will carry a rate of lawrest of 9 1/5 % per ansum. The relevant interest Psyment Date will be 5th July, 1994. The Coupon Amount per £5,000 will be £113.44 provide around surrough of Chancen Note 2 Hambros Bank Limited ·
Agent Bank

Arbuthnet Produce, a subsi-diary of Dow Scandia Holdings, has sold its interest in Marcuse Dorme and Co. to Arthur Bar-field Group. Mr Marcuse was a founder member of Marcuse Dorme and Co., but left the com-pany to join Landauer when Arbuthnot Produce decided to sell its interest in Marcuse Dorme.

The new division of Landauer will trade as Marcuse Glues &

ROTHSCHILD ASSET MANAGEMENT (CI) St Julian's Court, St Peter Port, Guernsey 0481:26741 O.C. INTERNATIONAL RESERVES LIMITED 1 - Yield.

Australian Dollars 15.019 + .003 + .028 + .015 8.63 6.73 5.74 Danish Kroner Hong Kong Dollars -300,085-Dally Dealings

# EQUITIES FIXED INTEREST STOCKS

| issue<br>price<br>£ |              | Pund<br>Pund<br>Pund<br>Pund<br>Pund<br>Pund<br>Pund<br>Pund |                      | 3/84<br>                 | r.   | Stock.  |   | Closing<br>price in             | 1 04 |
|---------------------|--------------|--|----------------------|--------------------------|--|---|---|---------------------------------|------|
| · •• - ,            | ₹2           | 125.   | High                 | COW                      |  |   |   | 85                              | -    |
| 97.071              | £25          | 1/7  | 285g                 | 354<br>319               | Asian Day. Bi<br>Baring Bros.<br>Brixton Est. I<br>ERGO 1612, U                  | Moo lat M   | at Deb 202                                |                                 |      |
| 98,048<br>196,548   | 280<br>F.P.  | 26/6<br>6/4<br>27/4  | 504er<br>1014<br>115 | 914<br>294<br>88<br>1084 | Eng. & Intal.<br>Finland 111g)<br>Grainger Tat.<br>Hanson Tat. 8                 | Tat. 10643.<br>Ln. 2009<br>11343 Ist 1<br>12 Osv. Us. | Deb. 2014<br>Mart. Deb 209<br>Ln. 2004/09 | 921 <sub>2</sub><br>30<br>41014 |      |
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| issua<br>price    | mount<br>and up | Latest<br>Renunc.<br>date | 198    | 5/8 <b>4</b>   |        | <br>S    | tock      |          | :=   |                 |
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| PINO              | ₹2.             | 104 ··                    | Klgh   | Low            | ,      | ·; ·     | •         | 1.0      | · .  | 86              |
| 400               | HH              | 17/5                      | 125pm  | 80on           | A.B.   | Electro  | nic       |          |      | 115on           |
| 7,93 <sub>1</sub> | F.P.            | . —                       | £535   | 2221g          | Akzo   | N/V FL   | 20        |          |      | 2234            |
| 215<br>157.5      | NII<br>NII      | 10/5<br>2/5               | 117pm  | 92pa<br>216pa  |        |          |           |          |      | 92 pp<br>268 pp |
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| ·                 | F.P.            | Œ                         | 285    | · 138          | East I | ANGEAN ( | Option    |          |      | 220 .           |
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| 25                | -Will-          | 11/5<br>12/4              | 58pm   | 14500          | Suto!  | ue spi   | - Gurrett | 100 m.,. |      | 27pm<br>12pm    |

### PENDING DIVIDENDS

Dates when some of the more important company dividend statements may be expected in the next few weeks are given in the following table. The dates shown are those of last year's amouncements except where the forthcoming burd meetings (indicated thus?) have been officially notified. Dividends to be declared will not necessarily be at the amounts in the column headed.

| " Announcement last ye   | ar."            |                           | ٠.٠             |                            |
|--|-----------------|---------------------------|-----------------|----------------------------|
| An An  | nounce-         |                           | - •             | Аппошлев-                  |
| Data me  | ntiast .        |                           | Data            | ment inst                  |
| Adwest Apr 17 Inte   | year<br>rim 2.1 | House of                  | : `             | year                       |
| Akroyd &   |                 | Fraser.,                  | .Aor 28         | Final 5.5                  |
| SmithersMay 9 Inti   | rim 4.0         | *Kwik Save                | Apr 13          | Interim 2.3                |
| Anglo American   | . 440-          | Land Secs                 | .Apr 28         | Final 1.875                |
|  | si 440c         | Laporte                   | Acr 28          | Finel 6.25<br>Finel 5.25   |
| Inda. May 10 Inte  | gion 1.2        | Laird Group               | Apr 9           | Rinet 2.1                  |
| *ANZMay 21 Inte  | rim 14 cts      | Lioyda and                |                 |                            |
| *Automotive<br>Products Apr 20 Sing  | ri ali          | Scottish<br>Marke and     | May 12          | Interim 1.0                |
| BLMar 18 Floa  | ni mil          | Spencer                   | May 4           | Finel 3.25                 |
|  | rim 2.73        | "Menzies (J.)             | Apr 30          | Finel 3.4                  |
| **************************************   | ป 5.01<br>ป กป  | Minet:                    | .Apr 20         | Final 2.1                  |
| Bank of  |                 | *Morgan<br>Crucible       | A 12            | Final 4.0                  |
| Irefend. May 17 Pine   | 1 10.5          | Mowless                   |                 | LINGS 475                  |
| TERMS OF   |                 | "NEI (John)               | Mev `4          | Final 8.4                  |
| Scotland Apr 18 Fins   | H 13.3          | - Newwithill              | A01 17          | Final 3.25                 |
| HepbumApr 16 Fine  | 4 1.4 🍀         | - Northeth                | ADT 11          | Final 9.0                  |
| Blackwood :  |                 | Foods                     | البر 20 mlل     | Interim 2.25               |
| Blue Circle  | J. 6.1          | Treerson (6.)             | .Par 17         | 15mat 7.45                 |
| Inds. Apr 28 Fina  | l 12.25         | Polly Peck                | May 19          |                            |
| British Home   |                 | *RMC                      | Anr 10          | Finel 9.75<br>Finel 6.5    |
| Stores May 9 Fine  | 13.5            | "Heed (Austin)            | Apr 12          | Firmel 3.5                 |
| Brixton Estate Apr 11 Fins   |                 | -N40 I III 110-           | -               |                            |
|  |                 | Royal Bank of             | ADT II          | Final 10.5                 |
| *Burmet Off Apr 11 Fina  | 1 7.5           | Sombland. 1               | 2 بيوليا        | Interior 3.0               |
| *Burmeb Off , Apr 11 Fina<br>*Costs Patons Apr 11 Fina<br>*Costsin May 10 Fina | 28              | "Risberoid                | Apr 12          | Real 4.0                   |
| CourtsuidsMey 20 Fine  | 2.25            | *Rugby Portland<br>Cement |                 | G1 2 6                     |
|  | 5.75            | Samuel Proces             | Aur 28          | filmal 2.9<br>Interim 1.43 |
| Debenhams May 20 Fine  | 4.78            |                           |                 | Final 2.1                  |
| Dubilier   | 1 m21 ULS       | Serior Eng                | Apr 10          | Finel 0.75                 |
| EIS  | 3.5             | Smith (W.H.)              | Anr in          | Finel 9.25<br>Floor 4.25   |
| - CURODENII  |                 | *Smiths Inde              | Apr ti          | interim 4.0                |
| FerriesMay 5 Rine<br>Experies Ind Apr 11 Rine                                  | 2.35            | Sundight                  |                 |                            |
| ExtelMay 16. Fine  | I7.5 . ⋅        | Service                   | Apræy<br>Vlav 1 | Final 3.638<br>Final 7.8   |
| reo, mer   | 1.65            | *Taylor                   |                 | F100H 7.0                  |
| Plight Refuelling Apr 26 Final   |                 | . Wandrow                 | Apr 10          | Firm! 14,0                 |
| French Kier May 3 Fine   | 38              | Telephone<br>Rentate      |                 | -1-1-0                     |
| Genrard and  | •               | Trabildar                 |                 | Final 3.0                  |
| National May 4 Fine  | 14.0            | . House                   | dev 9           | Interim 4.0                |
| DuBusApr. 13 . Finel   | 48              | Vel                       | day 6           | Final 3.2                  |
| "Glaxio  | lm 2.75         | Brownston : A             | 4sv 12          | Interim 3.025              |
| Grand<br>Metropolitan May 16 Inter   | a ene           |                           |                 | intesire 1.32              |
| Hari   | M 7.5/2         | Whithman                  | 70 71           | interim 2,5                |
| (Matthew) May 11 Firms   | 4.944           | Wheeler Withmed (G.)      | Apr 28          | Finel 3,75<br>Finel 2,15   |
| Hambro Life Abr 17 Pinal<br>Heath (C.E.) May 18 Final                          | 9.375           | . TO CHART BUILDEDLY      | <b>a</b> .      |                            |
|  |                 | Dudley Brews &            | dev 13          | Integrin 23                |
| SiddeleyApr 20. Finel  | 1.61            | Goard meetin              |                 | Tana Basin                 |
| Henworth (J.) May 10 Inter   | ian 1.59        | lesue slace mede          | . 1 For         | ecest.                     |

# Granville & Co. Limited Member of NASDIM 27/28 Lover Lane London EC3R 8EB Telephone 01-621 1212 Over-the Counter Market tn. Company Price on week div. (p) % Ac Ass. Brit. Ind. Ord. 330 + 2 6A 4.9 Ass. Brit. Ind. CULS. 141 - 10.0 7.1 Arappany Gross Vield 14 - 10.0 7.1 Arappany Gross Vield 14 - 10.0 7.1 Arappany Gross Vield 14 - 10.0 7.1 Arappany Gross Vield 15 - 10.0 7.1 Arappany Gross Vield 15 - 10.0 7.1 Arappany Gross Vield 16 - 10.0 7.1 Arappany Gross Vield 17 - 10.0 7.1 Arappany Gross Vield 18 - 10.0 7.1 Arappany Vield 18 - 10.0 7.1 2,081 17,410 6,021 34,090 10,129

### FINANCIAL TIMES STOCK INDICES Government Secs. 82,81 82,60 82,66 83,02 83,19 83,77 77,00 127.4 Fixed Interest... 86,73 86,75 86.62 | 86.52 | 86.56 87,48 79.05 150.4 50,53 867.0 857.8 859.2 870.8 877.0 901.4 598.4 901.4 îndustrial Ord .. 49.4 655.4 646.9 638.7 661.3 656.9 734.7 444.6 734.7 43.5 516.21 519.08 516.20 517.06 522.95 524.20 581.00 398.22 531.00 61.92 FT-Act. All-Share... 1096.3 | 1103.2 | 1098.6 | 1098.4 | 1108.1 | 1112.5 | 1180.7 | 997.5 | 1180.7 | 997.5

FULCRUM INVESTMENT TRUST P.L.C. Net asset value (unaudited) as at 30th March 1984 Income Shares: 41.82p

Capital Shares: 6.24p

Ozakaya International (Europe)

debi International (Europe)

Jest in Isla

# FINANCIAL TIMES SURVEY

Monday April 9 1984

# Cleveland, Ohio

Cleveland is in a period of awkward transition. As older labour-intensive industries decline it is searching for its share of new technologies and services jobs

ONLY 180 YEARS ago, Clevecouple of shacks on a marshy flood plain where the Cuyahoga river empties into Lake Erie. But nature had already singled it out for an eventful future.

Standing at a vital route intersection it exploded into growth as the American industrial revolution swept through the North East, successively absorbing and profitting from the waves of investment in steel, oil, motor cars and general metal working. That great wave of mana-

facturing expansion has now flowed on. Today, Cleveland wears the unmistakably fading look of a nineteenth-century boom town, its sprawling steel mills smoking fitfully along the banks of the Cuyahoga, while its commercial centre, sprinkled with the architectural evidence of a prosperous past, seeks a new future with a rash of modern office buildings.

### Fading look

It is by no means clear as yet what this future will hold. Like most of the great metal was not particularly surprising producing centres of the western Like other U.S. manufacturing world, Cleveland is now in the midst of a period of awkward

likes to forget—the bitter race riots of the late 1960s, which virtually coincided with the environmental row which broke industry brought prosperity to out when the heavily polluted its component and machine tool

By TERRY DODSWORTH which had generated such enormous wealth in the past.

The shock of these events has undoubtedly altered attitudes. The glittering new city centre land was little more than a skyscrapers are the most visible evidence that the city is trying to change itself, and its direc-tion, but the transformation by no means starts and ends there.

Politically, Clevelanders have taken a hard look at themselves and voted in a sober Republican mayor who has been willing to increase taxes to balance the books. This new realism has been accompanied by a broadbased move in the business community to re-inject some dynamism into the city's industry.

The problem these new pioneers face is one that is common to much of the American north-eastern industrial belt. From Detroit to Pittsburgh, the old boilerhouses of the U.S. manufacturing system are in decline as demand moves on to newer technologies than the ones they gave to the world. There are a number of sometimes conflicting explanations as to why this evolution in industry has hit the region so hard — but virtually everyone is agreed that it was compounded by a dangerous mood of complacency

in the post war period.
In one sense, this attitude areas, Cleveland was lulled into a false sense of security by the transition.

This change was brought home to it, and to all the world, in a series of incidents the city shock of the early 1970s. Steel production boomed in

this period, while the steady expansion of the U.S. motor companies. But these were also Ten years later, Cleveland the years which sowed the resulted in import market defaulted on some of its debts, seeds of the future setbacks, shares of between 25 and 30 the final ignominy for a city U.S. industry had been so per cent, is just one example of

### MILESTONES IN THE CITY'S LIFE

In 1982, Cleveland was recipient of the All-America Cities award, having recovered financially after defaulting on its fiscal obligations in 1978; Cleveland was the first city to default since the great depression.

• The Cleveland Foundation, • The Cieverana rountation, begun in 1914, is the country's oldest and largest community foundation, with assets of more than \$200m. It contributes over \$10m annually to such local programmes as family planning, care for the young and the aged, and various neighbourhood revitalisation projects.

• The Cleveland Clinic, founded in 1921, has become one of the largest privately funded and acclaimed medical centres in the world. Housed in 15 buildings over 11 square blocks, it has over 1,000 beds.

dominant after the war that it

was exposed to little inter-national competition at home, and had ready markets over-

seas. The challenge was to pro-

The rise of Japanese industry

and the reconstruction of Europe altered this comfortable

operating environment. The foreign car invasion, which has

duce, not sell.

• The city is home to the Fourth District Federal Reserve Bank, two national investment banks, McDonald and Company and Prescott, Ball and Turben, and two of the top ten law firms in the country, Jones, Day, Reaves and Pogue and Squire, Sanders and Dempsey. Cleve-

This institution, a leader in

the fields of artificial organs

and treatment of cardiovasc-lar diseases holds claim to

numerous medical advance-

ments, such as practical use of

one of the earliest heart and

lung machines, development of coronary cine anglography

and cardiac catheterisation, as

well as the artificial kidney.

A team at the clinic's Artificial Organ department is

now in the process of developing an artificial heart

this trend; a similar phenomenon is evident in machine tools and steel, both industries which are either asking for quotas or already have them. According to a recent study ublished by the Ameri-Trust band and prepared by the SRI research organisation, however, the impact of internal U.S. com-petition has been even greater. As the basic industries evolve towards new production methods, they are shifting their

more open to change. Eaton, the motor components manufacturer, is an outstanding

example of this trend: once a major Cleveland employer, it now has virtually no manufacturing jobs in the city. Some economists and analysts put heavy responsibility for this decline upon trade union

associations with combined

bank and savines and wan

land area amount to over

• Greater Cleveland ranks

tenth nationally in newspaper markets with 23 dailies with

• The Erie Canal, in use by

1832, along with the opening of the railroad in 1851, made

Cleveland into a major port.

linking it with the eastern markets. Over 1,200 cargo

ships a year dock at Cleve-land's 65 docks, annually loading or unloading more

• One of the cultural centres

of the U.S., the Cleveland Symphony, formerly con-ducted by Lorin Mazzel, is

than 20m tons of goods.

of more than Im.

ets of nearly \$13bn. Total

green-field investments away from the North East to unde-veloped farmland areas where wages are lower and workforces

has to."

considered one of the "Big Five," and the Cleveland Museum of Art ranks with the greatest museums in the

Ranking fifth in the U.S. Cleveland is headquarters to more than 30 corporations listed in the Fortune 1,000. John D. Rockefeller, a native of Cleveland, began his Stan-dard Oil of Ohio, Sohio (the first link in his chain of Stan-dard Oil companies) in 1870. Other famous Clevelanders are Mark Hanna, a U.S. Senator and Henry B. Payne, who also served in the Senate. Jeptha P. Wade, a prominent Cleveland businessman is best known for combining 13 different telegraph companies into what became

Telegraph Company. RIVKA NACHOMA

known as the Western Union

organisation. "No one will build a plant in Cleveland like Honda's in Columbus," says Mr Theodore Aldred Dean of the Weatherhead School of Management at Case University, because no one walks into the United Auto Workers unless he

As this example shows, Cleveland is now losing jobs to areas which are virtually on its door-step in southern Ohio, and

tion is seen as a positive advantage.

Management also comes in for its share of criticism. The last 20 years have seen both a slippage in U.S. investment and a willingness to compromise on productivity which is now being paid for in lost markets. The cheap dollar policies of the 1970s in no way prepared industry for the tougher competitive climate.

The impact of these failures is clearly shown in the employment and demographic statistics for the area. Cleveland's popula-tion peaked in the late 1950s. when it approached 1m, but it has since fallen steadily to reach 574,000 by the last census date of 1980.

The city has an unemploy-ment rate of almost 14 per cent, and in the larger greater Cleveland Standard Metropolitan Statistical Area, non agricul-tural employment has fallen from 874,000 in 1978 to 817,000 last, year. In the same period, service jobs have increased only marginally, while manufacturing jobs fell by almost 23 per cent to 210,000.

Some of the factors which have produced this stark picture of decline will be virtually impossible to reverse. The steel industry, for example, has now moved irreversibly towards an international commodity structure and will never again employ the numbers it once found necessary in the U.S.

towards factory automation and manufacturing productivity is cutting away at the employment base in many of the industries which were the foundation of the Cleveland economy.

Given that some of these basic industries seem ready for even further shake-outs, it is difficult to see how the city can escape quickly from its down-ward spiral. Even so, some experts argue that the severity of the contraction may have a beneficial effect in the long run.
"People always underestimate

the forces of equilibrium which are at work in institutions," says Mr Alfred, pointing to some local union contracts where wages have been brought down step in southern Ohio, and to "something reasonable" to adjustme where a lack of industrial tradi- keep companies in Cleveland.

### CONTENTS

Banking: when prudence pays off Politics: the city shakes off its debtor image

strong growth Health Care: centre for a

large network Legal services: a good place for lawyers Manufacturing Industry: diversity helps to ease

effects of recession Profile: Tecmar IV Profile: Hygrade 3V

examples of this process of self adjustment is in the way the city has rallied to the efforts to put its finances back on a sounder footing. This move has had both a political and an institutional dimension. Politically, it brought in a mayor, Mr George Voinovich, with a suffi-ciently strong mandate to be able to push through two per-sonal tax increases levied on city payrolls, although he has failed with a third effort. Institutionally, it has enrolled business and the professions—and to some extent the trade unions —in a drive to reinvigorate the

city.
The main hope for the future, At the same time, the drive however, must lie in an owards factory automation and entrepreneurial re-birth of the kind which has suddenly lifted Boston out of the rut over the past 10 years. Venture capitalists in Cleveland give the impression that there is plenty of money available for new projects if only the entrepreneurs can be found to use it - indeed the Morganthaler Management Corporation, the largest venture capital organisation in the area, and one of the oldest in the country, does much more of its business outside the region than within it.

There are many hard-nosed businessmen in Cleveland and the North East who believe that this recovery will emerge once the natural process of cost

# TAVESTING IN THE

Ohio is at the heart of where innovation and industry unite.

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Ohio is truly at the heart of a progressive business environment.

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Ohio's government officials, educators and business leaders have forged an alliance for industrial progress. A hallmark of this cooperative effort is the Thomas Alva Edison program. This state-sponsored partnership, the largest of its kind in the U.S, provides \$32.4 million to bring universities and businesses together to develop new technologies for improving productivity in Ohio

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# Prudence cushions the shocks

### Banking

TERRY DODSWORTH

CLEVELAND'S BANKS have rarely figured big in the record books. Sandwiched between the giants on the east and west coasts, overshadowed in size by their near-neighbours in Chicago, they have established a reputation for a brand of

But in the troubled credit conditions of the past few years it has also insulated the Cleveland risen to 2.3 per cent—although on cautious development is that

problems that have hit others tive method of putting loans in Third World lending, energy into the non-accrual category investment and real estate. after 60 days of non-payment Indeed, whereas many U.S.

banks were shrinking their assets last year, as they cut back loans to improve their capital ratios, the Cleveland banks were adding to their loan portfolios. One of them, Society Corporation, expanded its book by around 25 per cent, and National City's also went up by 15 per cent.

This is not to say that they have no problem areas. National

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the North Coast

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varied needs.

banks from the worst of the it admittedly uses the conservaof interest.

hanks, however, the Cleveland banks have maintained a solid safety margin. Their loan loss

By the standards of many U.S. Research: Rivka Nachoma

reserves tend to be a little higher as a percentage of total loans than the average of 1.3 per cent for the industry last year, and they are, if any-thing, undergeared: National City's long-term debt stands at only 20 per cent of total capital, while Society Corporation's is a reputation for a brand of prudence which verges on conservation.

Their spirit of adventure has failed to match that of the large and successful manufacturing companies on their doorstep which have gone out and conquered the world.

This is not to reproduce a reas. National city had to make loan loss provisions last year of \$23.9m, and a visions last year of \$23.9m, and a per cent, and AmeriTrust's is zero. By contrast, most of the top 20 U.S. banks operate with long-term debt of more setting aside \$41m over the previous two years.

Indeed. AmeriTrust's non-leader, has a ratio of 68 per cent.

rate as the pace-setters in the

Profits have suffered to some extent as well. Over the same four year period, none of them has quite matched the industry's average annual growth of 8.4 per cent.

pedestrian performance as yet another indication of the economic malaise which has over-taken Cleveland. Until the 1970s, the banks were operating in one of the strongest economic environments in the U.S. As growth drifted to other areas of the country, they have inevitably suffered in not responding with an aggressive drive to expand their asset base else-

Today, however, a more adventurous policy is being forced upon them. Like banks

### Cleveland-Based Bank Holding Companies

Reinen Total on Previous rate

Growth Holding Company Sm rate National City Corporation\*... AmeriTrust Corporation ..... +10.2 6.585.9 -3.5 4,223.5 3,367.1 +0.8 +9.5 5,797.1 18.65 Society Corporation: ....... +3.6 +10.0 12.15 NA 2,900.0 NA‡ Centran Corporation

\* Agreement in principle for the merger of BancOhio Corporation, Columbus, with assets of S6.1bn, into National City Corporation.
† Approval received from Federal Reserve Bank of Cleveland to acquire The First National Bank of Salem, transaction effective on January 9, 1984. Application to merge Interstate Financial Corporation, Dayton, with assets of Science Corporation, filed with Federal Reserve Bank of Cleveland. ‡ Centran Corporation showed a loss of \$58.7m for the 12 months of 1982.

the Cleveland banks have not also grown at anything like the same com rate as the pace-setters in the U.S. industry. According to the latest analysis by Forbes magazine, asset growth in the banking sector over the past four years has averaged 11.3 per cent, while equity per share has grown by 8.7 per cent. None of the Cleveland banks has matched these figures.

The fastest growing group, National City, achieved 10.6 per cent in asset expansion, but only the parent company of the parent company the parent company using this loophole it per share, while AmeriTrust's several banks develope assets grew at a rate of only 2.8 State-wide structures.

This reflects National City's fall from grace in its portfolio investment business, which had provided a large slice of its profits in the 1970s, but which took a knock when the Federal Reserve Board changed its reducing the state's total of monetary policy in 1979; and at AmeriTrust, which consistently earns a healthy return on its assets, it underlines a failure to gear up sufficiently on its equity base.

This wave of amalgamations has left Banc One as the leading institution in the state in terms of assets, although

throughout the country, the Cleveland institutions are now faced with the prospect of a new deregulated structure which will allow them to move their deposit operations outside the State — and which would

allow · outside competitors.
Until 1978, the Ohio hanks had operated within theoretically limited marketing areas based on county structure, How-

ever, a form of State-wide bank-ing was feasible even at that time, through holding company structures which allowed groups in one county to invest in banks in other areas as long as the two businesses were kept operationally separate under the parent company umbrella. Using this loophole in the law, several banks developed embryo

### Rash of takeovers

Six years ago, the State gave a further nudge to this process of integration by altering the regulations to allow the complete merger between the so-called multi-bank holding companies and their subsidi-aries, and allowing them to branch under their own names across county lines. Another rash of takeovers followed, reducing the state's total of

quity base. terms of assets, although
It is tempting to see this National City is now heading

for the premier position through its agreed bid for Bancohio. If this deal goes through—and there seems no reason why it should not—National City will emerge with assets of around \$12bn, pushing the second state. up its ranking in the national league from 48 to 28, against Banc One's position of 43rd. Mr Julien McCall, chairman of National, makes no bones about the fact that this policy of local state expansion is designed to put the bank back into a position to play an aggressive role on the development of interstate banking which is expected to sweep

across the U.S. during the next " Our objective is to be a fully state-wide commercial banking organisation. he says. "First we want to grow and expand our business by broadening our market base. Secondly, we anti-

market base. Secondly, we anticipate that in some way there
will be interstate banking, and it is markedly reluctant to
we do not want to be a bank
available to be acquired. We
aim to be a major part of a
regional interstate network."

At AmeriTrust, it is roughly
the same story. "Our loan
growth over the last few years
has been very modest." says Mr
Jerry Jarrett, chairman. "We
now have some fairly aggressive
objectives in commercial and

retail banking, but we recognise absorbed by someone else. that we cannot generate the necessary loan growth inter-

aggressive, although it has clearly been positioning itself to be ready either to acquire or be acquired at a reasonable price when the barriers to interstate banking go down.

Banking arm Originally a savings bank, Society changed status in 1958, and has since added a commer-cial banking wing to its pri-marily retail, consumer busi-

will allow them to expand or be

relatively straightforward Bill is now on the table at the State made it clear that we shall be the local banks will be allowed active in acquisitions."

Society is not so obviously ing states.

The consensus view however, is that this will not go through

is that this will not go through until the banks themselves come to some sort of understanding on what they want—and at present they are split right down the middle.

On the one side, there is a group led by National City and Bank One, that would like to go in one step to complete reciprocating status, with Ohio banks being allowed to expand into any state in the country, so long as it had similar rules, On the other, there is a strong As a result of a series of takeovers starting back in the 1960s, it has one of the largest branch networks in the state, soon to be expanded to around yiew here is that the banks 350 units after the amalgamation with a Dayton hank. But it is markedly reluctant to graph too far into the risky regional groups, either as an end in itself, or as a first move towards regrouping to face the towards regrouping to face the challenge of nationwide bank-

ing.
Whichever side wins, it is clear that the banks have only taken the first step so far down a road towards rationalisation

# Cuts and corporate sector aid recovery from default

### **Polities**

PETER BRUCE

TRYING TO hold a conversa-tion with Dennis Kucinich in a downtown Cleveland cafeteria can be frustrating. People keep coming up to pat him on the back, shake his hand, talk about old times, as one retired judge did, or of new plans.

Mr Kusinich is popular in some quarters but mere mention of his name invites almost uni-

of his name invites almost unicondemnation from Cleveland's normally generous establishment which supports tra, and art museum, and which has belped Cleveland become the ntaon's major per capita contributor to the United Way, the biggest charity in the U.S. In 1979 the establishment broke

Kucinich used to be the mayor of Cleveland, but his extraordinary rise to prominence—at 31 he was the city's youngest ever leader when elected by a slim majority in 1977—effectively came to an end on the morning of December 15

He was thrown out of office at the next election, in 1979, at the next election, in 1979, despite winning a tax increase to help pay off the city's debts and despite winning by a 2-1 margin a referendum supporting his decision not to raise the money by selling the Cleveland power utility into the private sector—an option he maintained was put to him by the banks.

"I would have been Governor

"I would have been Governor

of Ohio today if I had done the deal," he says.

But the default, on debts that had been rolled over before, was not altogether surprising.
Kucinich had antagonised
Cleveland's powerful business
community early on, characterising corporate leaders as either greedy or self-seeking and he had also lambasted the city council as "buffoons." He had also focused nationwide attention on Cleveland by gathering around him a coterie of young, inexperienced officials (his financial director was then 36, his assistant safety director 22, and his school board president 27).

### Personal protest

A few days after the default was declared and true to his populist style, he strode into downtown bank and publicly withdrew his personal account in protest.

A delegation of top businessmen, incensed by the antics of their mayor, had by then approached George Voinovich, Onio's lieutenant governor, and a Republican, and got him to oppose Kucinich at the next election, which he did, successfully, at the end of 1979.

Volnovich had not a little help



Cleveland Mayor George V. Voinovich, in office since 1979;

was quick to restamp its mark supposed to be part of the on the city's administration. rebirth of sound city govern-Voinovich began calling in ment at all. The mayor failed voinovich began calling in ment at all. The mayor failed private sector help the day he in February to win a further entered office and a team of tax increase from the city's auditors from seven local voters (even though the Cleve-accounting firms and five corland voters contribute only porations began rummaging around 30 per cent of total through the city's books.

The mess was remarkable comes from subtribute commuters who work downtown and muters who work downtown and

The mess was remarkable. Accumulative city debt turned out to be more than \$100m. a year later, when local banks

pulled the carpet out from occupied while municipal
under his feet and declared employees were bilisted in excleveland in default.

Parts of City Hali were unpulled the carpet out from occupied while municipal
employees were bilisted in expensive downtown offices. The pensive downtown offices. The. private sector task force brought in by Voinovich eventually came up with a list of 650 economies designed to save an

city council (Forbes has been compromise bet council president now for 12 priorities of his blyears), were getting along ents and his e famously. Peace had broken patrons is legendar out, the books had been some trouble.

Last year Cleveland successfully re-entered the bond markets, raising a modest \$27.75m issue to help repair a crumb-ling infrastructure and some of the 11,000 potholes that dot the

city's streets.
The sale of the bonds was an important boost to the admini-stration whose efforts to get Cleveland's credit rating with Moody's and Standard and Poor moody's and Standard and Foor-improved had failed a month or two before. Cleveland has been back to the debt market again, this time for more than \$50m. The Cleveland banks had also

The Cleveland banks had also agreed, on pain of a three year financial recovery plan, to convert the city's debt into long-term bonds and to top it all. Voinovich was re-elected with a whopping majority in November 1981, to a four-year term after woters had agreed to extend the mayoral term of office from two years. The mayor's office is now beginning to get a little steamy however. little steamy however.

"Tranquility is not a natural state of politics here," says Rucinich, who, to the horror of those critics who thought him dead and buried, won a sest back in council last year.

between the city's public and private sectors.

rolls) He then retaliated by cutting back some services, an action that flew right back at him in the form of a blizzard so severe that the city found it did not have the resources left to clear the streets of snow.

came up with a list of 650 economies designed to save an immediate \$37m and a further \$57m a year.

Meanwhile, the new Republican mayor and the long-serving Democrat city council is vitaing bemocrat at the head of the city council (Forbes has been council president now for 12 priorities of his black constitution out, the books had been some trouble.

powerful handguns. His personal finances have also caused him some embarrassment—he recently falled to pay his water bill until it was around \$806 in arrears and his law firm has had federal tax liens filed against worth \$30,000.

Voinovich has also backed and won the support of varyers on a

Against with a subso backed and a won the support of voters on a proposal to but up nearly \$8m to encourage an entrepreneur to build a modern "mini mill" to produce steel bars in Cleveland. Votnovich says he is certain the project will go ahead, but steel industry analysts doubts its viability, and point out that Republic Steel already has two mothballed steel mills in Cleveland.

The scheme's promoter is now reported to be talking to other and it seems that the structures authorities in the region about elected by corporate Cleveland a similar project. Certainly, to map out that future, have analysts say, building two would be a nonsense and there is a population.

Given the restoration of The scheme's promoter is now

fully, at the end of 1979.

Voinovich had not a little help from the powerful city council president, George Forbes, a Democrat, who refused to back and the banks satisfied. United. Steelworkers. The black and thereby deliver the city's important black vote.

With the "juvenile delinquents" as Barrons, the U.S. financial weekly, call the Kucinich administration, out of the way, corporate Cleveland.

To cleveland.

Cleveland.

Cleveland.

Cleveland.

Steelworkers. The probably not had a better opportunity in years to resolve its problems. After decades with supported voino.

Environmental control reviews election in 1979 and 1981, of mismanagement and waste, have been pruned.

Says he was not consulted about the have one to recemble, in scale, if not detail, those of any other relatively minor. but rationalis fought against it as the mill industry in the U.S. metropolis. And that is an achievement in itself.

has traditionally not employed organised labour. Valenta, a potentially power ful influence on the big blue collar vote, in Cleveland, says he would not support Volnovich again. "The honeymoon," he

says, "Is over." On balance, nowever, Voinovich is still shead of the game vich is still ahead of the game and with an election coming up next year some local observers believe he may decide to quit while he is ahead. The mayor says he hasn't decided yet, but that he has been approached about possible moves towards either Columbus, the state capital, or Washington.

One barrier to getting out un-scathed could be the lack of an obvious successor. "He should says one city lawyer. Another intriguing possibility could be an attempt next year by Dennis Kucinich to unseat Forbes as council president. In a sense, though, the politi-

cians are irrelevant to Cleve-land's short-term future. Res-

voters (even though the Cleveland voters contribute only, rest for now squarely with the
around 30 per cent of total ousiness community,
income tax revenues; the rest The corporate Cleveland
comes from suburban commuters who work downtown and main prongs, Firstly the
who are taxed on their pay. Greater Cleveland Round Table, a discussion group set up by Mr E. Mandel de Windt, chairman of the Eaton Corporation, in 1981, serves to bring together as many of Cleveland's diverse ethnic political industrial and labour interests as possible in an attempt, as its director, Sarah Austin, describes, to "rational-

ise and prioritise Cleveland's agenda."

The Cleveland Tomorrow Committee, on the other hand, also established by Mr de Windt and other hydrogen between the cleveland of the property of the committee of the cleveland of the property of the cleveland of the clev and other business leaders in 1981, appears to have set the city's targets in advance, coming

out as it did in 1981 with a programme to revive Cleve-land's economic fortunes. Cynics are probably being un-Forbes, has upset the local Table exists to do little more than demand to be given more powerful handguns. His personal finances have also contained to the con in behind the Cleveland Tomorrow programme, but there
are signs of frustration at the
time being taken to tackle what
corporate leaders believed to be
the local economy's biggest
problem—high wages—and this
was one of the issues the Round
Table was supposed to deal
with.
Only a handful of unon
leaders sit on the Round Table
and Sarah Austin concedes that
the body is still "trying" to
filter its message down to union

the body is still "trying" to filter its message down to union rank and file. Mayor Voinovich also says that the management-labour consensus "is not happening quickly enough." Even Dennis Kucinich admits that business "has a legitimate function and interest in the future of the city's economy."

if the mill is not now built in management to dity government,

# Jein 1 ils

### هكذا من النصل

# Strong growth offers an unexpected lifeline

Services PETER BRUCE

ASK ANY Clevelander what the city's fastest-growing privately-held company produces and most would probably suggest a sophisticated piece of machin-ery. In fact, for the past two years, the prize has gone to a father and son who run a string of parking lots.

In a city where manufacturing giants like Republic Steel, Eaton Corporation, TRW, White Consolidated, Parker Hanifin, Acme Cleveland and Sohio have grown up, the 3,252 per cent growth in Kassouf Parking's turnover last year, to \$5.9m might reasonably be considered a near heresy. But that is not the end of it. Cleveland's biggest employer used to be Re-public Steel—now it is a hospital. The city's fastest growing industry is no longer the motor components business, but the

There has been a sharp change in the city's industrial profile in the past five years. As virtually every sector of the diversified manufacturing economy has fallen foul of the recession, so has an apparently immune services sector shrugged it off. While manufacturing employment fell from 276,300 in 1979 to around 212,000 towards the end of last year, service jobs, excluding finance, insurance, local government and property, rose from 184,200 to nearly 200,000. In the past 10 years, service industry. jobs have increased by well over

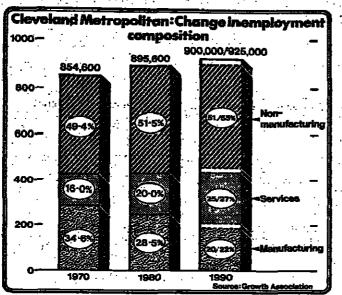
### Rewards

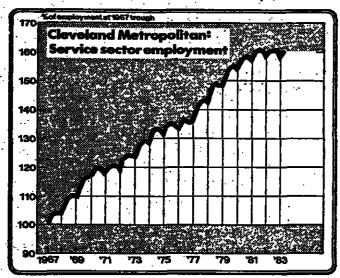
has given heart to big business in the city. "Anytime you move from manufacturing in-dustry to services you protect Chicago," says Mr James Trutko, yourself from cycles," says one AmeriTrust economist.

that while many of the major . Cleveland-based manufacturers hangs however, by a very thin Cleveland-based manufacturers have cut back severely, if not totally, on production in and around the city, their headquarters have remained and local legal and accounting firms, consultancies and other skilled professionals have been able to reap the rewards of industrial expansion in the south, where expansion in the south, where the consultance is changed in the consultance of the consul have cut back severely, if not totally, on production in and around the city, their headquarlabour is cheaper, and abroad.

A second, and possibly less operational headquarters will stay in Republic's building in nology," recalls Mr Knight, "but designed over the composition of the composition position on Lake Erie commanding view of the freight tives there expect some key routes between the Eastern sea-board and the heavy industry and financial departments, will commanding view of the freight around Chicago and Detroit the very things that attracted manufacturers to Cleveland in the first place — are likely to remain an important impetus to investment in distributive

But perhaps because the stump in manufacturing employ-ment has been so sudden, and so steep, neither the business, nor the academic community knows, with any degree of cer-tainty, just why the service industries have taken such a hold.





The strength of Cleveland's the growth, the fact of it has service sector, and of the non-manufacturing sector in general, the city's busy strategists. "I've always felt we have the strongest management services an economist with the Greater Cleveland Growth Association This growth is partly (the local Chamber of explained at least by the fact Commerce);

The services lifeline often have to report to Dellas. Cleve-land's service sector will have to fight to hold on to the business.

cleveland State University seem as if these companies are economist, argued in 1977, how tied to Cleveland by little more ever, that the contribution made than sentiment to the economy by headquarter Cleveland's publicists are

Whatever the reasons behind a single production worker. It is growth, the fact of it has was then, and still is, Drome as an enormous relief to Knight's contention that Clevele city's busy strategists, land is in the process of establive always felt we have the lishing itself as a centre of rongest management services corporate brain power and advanced services. advanced services.

Equally difficult to measure is

the degree to which those cor-porations with headquarters in Cleveland are committed to staying. About one-third of the city's major headquarters have been lost since the early beventies—around five have

the solutions they were getting from Cleveland were mechanical, not electrical."

warning, left hanging in the air, is that the city is going to have to find ways to add some sub-Although the new \$47m Eaton

headquarters, and the new \$80m TRW headquarters buildings, It is difficult to judge just all in various stage of comple-how important corporate head-tion, may warm the hearts of quarters are to the local the town's lawyers and auditors economy. Dr Richard Knight a and doctors, it can sometimes

Cleveland Clinic provides spin offs

but they are sensitive to the attractions of the southern and western parts of the country. "I can't think of any reason why the headquarters should go." says the Growth Association's Trutko, adding, unprompted, "sun is fine if you want to

Quite what the benefits of service sector growth have been at the lower end of the economic scale is also unclear. Redundant manufacturing workers lucky enough to find new jobs have often been forced to take dramatic cuts in pay. One 50 year old former Eaton employee earning \$12 an hour, now works at night for \$4 an hour at what a close friend describes as "packing things."

### Haunted

"There's a big gap between all the fancy statistics and what the real problems are," says one local government official in the generally working class suburb of Brook Park. While some of the suburb's unemployed have been recalled by nearby motor plants more than half of those who have found jobs have had to take heavy pay cuts in re-turn, and most of these new jobs have been in the service

The prospect of a "service" mentality taking root in Cleveland haunts Frank Valenta, director of the United Steel Workers District 28. "Sure we want an improvement in services but if there's no menuice. facture then there's nothing to service," he groans. " How long can we exist cutting each other's hair and doing each other's

Among Cleveland's small scale manufacturers, sentiment about the fashionable new services runs close to contempt.

"My doctor and lawyer friends think its wonderful to have a dollar that's 34 per cent over-valued," said one machine tool producer, "because they can go out and buy a Mercedes and spend a weekend in London and have a lot of fun."

There is some evidence to suggest that the powers that be in Cleveland are listening to the fears voiced by Valenta. Programmes to shore up industry are being discussed but essentially, he and other trade unionists, and many smaller manufacturers,, worry about the speed with which the growth of services has been latched onto as either inevitable or desirable.

What most worries these groups is that the growth in services, whether advanced or basic, has been largely

To an extent, these fears are echoed by Dr Knight, is no strategy," he says, stance, and quickly, to all the talk of strengthening those remaining basic industries if the service industries do not find one day that they are being caried along on little more than a cushion of air.

It seems, however, that Cleveland, with its biggest department store making record profits last year with the first to the economy by headquarter Cleveland's publicists are new car dealership opening jobs tended to be overshadowed quick to point out that the downtown in more than a by publicity given to plant notion that multinational cordecade, and with new buildings closures and that one headquarters could be rising in the centre, is going to quarters post in fact, supported sited anywhere in the U.S. find listening to the sceptics five times as many local jobs as works as much in the city's hard to do.

the much-fussed-over scanner

The Nuclear Magnetic Reson-

ance (NMR) technique does away with potentially harmful

X-rays altogether and both pro-ducers have machines installed

in Cleveland's hospitals for

testing.
Picker, the older and larger

of the two (with a turnover of

some \$700m compared with Technicare's \$200m) has been in Cleveland for 40 years and came to the city not because of its hospitals but because of its machine shops, to which it still

contracts out plecework on a range of medical equipment ranging from tables and beds

to conventional X-ray machines. The presence of both Picker and Technicare, and around 30

other smaller medical equip-ment suppliers, has encouraged

muse about a new medical

Cleveland strategists to

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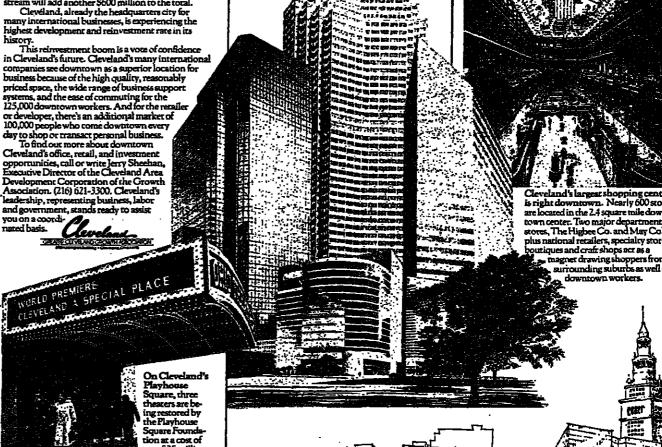
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# Downtown Cleveland









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built in the historic Flats area complements other downtown living. Additional major developments along

**Health Care** PETER BRUCE

ON Thursday March 22 the first patients of the day were wheeled into operating theatres wheeled into operating theates at the Cleveland Clinic just before 8.00 am. By the end of the day, surgeons had worked on 71 patients, a little below average, performing 10 heart bypass operations, restoring four hands, at least one kidney transplant, three mastectomies, repaired a damaged retina and extracted an impacted wisdom

At least one of the bypass patients spent the previous night in the Clinic Inn, a plush little resort in the grounds of what has grown to be the city's single biggest employer, before being sped into the theatre in the morning and by now, according to the clinic's law of average, could be back at work. With some 32,000 admissions a year to its 1,008 staffed beds. a year to its 1,008 staffed bets, in addition to seeing 500,000 outpatients, the Cleveland clinic has become the centre of a sprawling healthcare network throughout the city, which now boasts some 34 other hospitals, with more than 10,000 beds, with more than 10,000 beds, and, at the last count in 1981, at least 45 small clinics catering at least 45 small clinics catering

reached serious proportions locally. While treasurent of the goitre itself was not particu-larly difficult, removing the growths without massive damage to surrounding tissue was and the early clinic teams are still credited with pioneering what has come to be known as "less radical surgery" technique that has helped countless women come through mastectomy without severe damage to surrounding tissue. Although the clinic's first successes were surgical, a Dr

Irvine Page arrived at the hospital in the Forties, having begun to doubt the conven-tional wisdom of the day which held, basically, that high blood pressure was a good thing. Years earlier he had noticed a link between hypertension and heart disease and strokes and with colleagues at the chinic he began to look for ways to treat

### Hypertension

Initial efforts led Dr Page and his researchers to one of for anything from routine check ups to drive in surgery.

It all started around 1921, when Cleveland became one of the drive client in the construction of the last client in the nave a group practice. The world's first artificial kidney, a gathering of doctors proved to converted washing machine. be stimulating particularly as when the version became one of the the first cities in the U.S. to led to the construction of the converted washing machine the fact that two of the coun-from there, the jump to try's leading medical equip-

goitres, which produced a massive swelling around the neck, seemed at the time to have reached serious proportions maintaining whole body functions by mechanical means was based in the city.

Picker International, part of geons to do early work in open-Britain's GEC, and Technicare, heart surgery. By the late Sixtles, with so much inter-action between disciplines at the hospital, accidents of good part of Johnson and Johnson, are leading research into a ground-breaking diagnostic machine that threatens to make fortune were bound to happen, The heart bypass operation was one, and came about when a cardiac surgeon strolled into a theatre to watch some colleagues rerouting an artery around a permanently damaged section of a kidney. The technique, he realised could easily be applied to the heart. Nearly 30,000 bypass operations have been performed since the first

> The surgical successes, however, tend to overshadow the progress made in diagnostics during the research into cardiovascular disease. The clinic developed the cardiac catheterisation technique in 1958 and it is now common through-

> The foundation that runs the clinic does so on a non-profit basis but nevertheless does handsomely from it Revenues last year amounted to more Union among past patients.
>
> Ironically, the presence of a major health care centre in

equipment industry flowing into the city. Not so, says one Ameritrust economist. For one, the growth in equipment is likely to be in smaller, lighter products that could easily be Cleveland and, argue some local manufacturers. equipment Cleveland is already over-bedded. The State Govern-ment, concerned at the rising Cleveland, and other illustrious hospitals including Mount Sinal, has very little to do with cost of health services in Ohio, has also imposed a moratorium on 'capital spending by local

# Strong base for law firms

LEGAL FOLKLORE in Cleve- up back at corporate head-land does not actually detail just quarters. even those companies that are. One story has it that the local law firms only too Andrew Squire, a founding partner of the city's biggest law Sanders opened are Squire firm, Squire Sanders firm, Squire Sanders and Dempsey, spoke at President William T. McKinley's funeral in 1901. Squire, it is said, claimed to have known four IIS presidents on first name

A more credible link to Washington, however, probably comes through Mark Hanna, local industrialist. Republican Senator and chairman of the Republican Party around the Republican Party around the turn of the century. Squire knew Hanna, and it was most likely that links of this sort drew Cleveland lawyers into a partnership with the industries that were beginning to flourish around the city.

Washington was, anyway, too far away then for local lawyers

### Legal Services

PETER BRUCE

to be able to profit from any political work and Squire, a business consultant, must have been happy with the business opportunities closer to home.

Industry, and a profusion of major corporate headquarters in the city, have spurred on almost embarrassing growth in legal service jobs in Cleveland. Between 1968 and 1980, for instance, law service employment rose nearly 85 per cent to some 5,000 people among Cleve-land's firms, two of which— Squire Sanders and Jones, Day Reavis and Pogue—rank among the 10 biggest in the country.

The present chief at Squire Sanders, Mr George Meisel, clearly believes Cleveland is still a good place to be based in, even ough the decline in manufacturing around the city has meant a decline in the amount of corporate legal work involved in union pay settlements. As the city's big cor-porations have shifted their manufacturing bases to the more attractive (and compliant) west the legal work has piled ington.

Miami when Harris Corporation moved there and Jones Day Dempsey, spoke at President moved there and Johes Day William T. McKinley's funeral followed Diamond Shamrock to in 1901. Squire, it is said, claimed to have known four helped the two firms' annual billings to grow to around \$50m a year, and that is a conservative estimate.

The two big firms have also spread themselves to other parts of the country. Predict-ably Columbus, Ohio's capital, has become an important location and at least four other Cleveland firms have operations there. Washington D.C., too, attracts plenty of lawyers, but Squire Sanders, with 307 lawyers on its staff, has also expanded to New York, to pick up business on the financial markets, and to Phoenix, Arizona—one Squire Sanders lawyer was forced to move there when doctors told his wife to when doctors told his wife to move for health reasons. "After he was down there for a while he began to realise there was

quite a market," says Mr Meisel. An equally fortuitous event— one of the firm's lawyers in Washington married the Belgian Ambassador to the U.S.—led to the opening of an office in Brussels, where the company has since done work for Société Générale and has just appointed a lawyer to look for opportunities within the European Com-

Some 10 per cent to 15 per cent of total Squire Sanders billings now come from abroad, Mr Meisel says, though not all from the Brussels operation. He does feel, however, that the pre-sence of the five partners in the Belgian capital offers a unique opportunity to potential European clients, especially those interested in doing business in the U.S.

"We don't represent our selves as Belgian or European lawyers," he says. "We are an American law firm with a Belgian office." That position might not have been intentional at the start but a newly discovered advantage to Squire Sanders, he believes, is that while a number of the big New York law firms have European offices, they have little experience outside New York, and, perhaps, Wash-

Manufacturing early leavers. Industry

quent recovery fails to regain fully the employment lost in the previous recession." The decline CLEVELAND HAS always been has been relentless, although not always dramatic. In 1967, one of the powerhouses of manufacturing industry in the manufacturing industries employed 40 per cent of the work-U.S. Its position on Lake Erie has placed it at the centre of the iron ore routes from northern Minnesota to the steel industry around Pittsburgh in

the straight state of the freight routes between the huge capital goods markets to the west and the consumer markets on the east come from dustrial engage. come from the city's major in-dustrial employers. Eaton has closed most of its manufactur-ing plants in the area, Republic const. Probably to its lasting good fortunte, the early indus-trialists in Cleveland never could decide what industry to steel and Jones and Laughlin still have also cut back sharply on jobs, but it is almost impossible to gauge the effects of the recession on the hundreds of smaller machine tools builders that give real substance to industrial employment is accounted for by the motor industry, and steel takes up to 39 per cent of the jobs going in Pittsburgh, but the biggest concentration of industrial jobs in Cleveland, 18 per cent is in that give real substance to manufacturing in Cleveland.

### Accessories

There are about 420 companies making machine tools, dies, tools, jigs, fixtures or other machining accessories around the city. A quarter of them employ, at best, fewer than five people and more than two-thirds employ fewer than 20 pople.

Local steelworkers union leader Frank Valenta says he has counted 48 fabricating companies disappear during the recession. The Ohlo Bureau of Employment Services estimates that employment in the metal-working machinery industries in metropolitan Cleveland fell be-tween 1979 and 1982 to its lowest level since the end of the

For the most part, however, The city's problem is that most of its manufacturing industries are concentrated in relatively mature areas; non-

tightening. "A lot of companies have brought down their breakeven

# Diversity helps to ride recession

### traditionally find themselves latecomers to any upturn in the national production cycle and "The effect is cumulative," says a recent report by the Cleveland State University's Urban Centre, "Each subse-

PETER BRUCE

get into. It just seemed to be a good place in which to make

Some 42 per cent of Detroit's

in Cleveland, 18 per cent, is in what could loosely be called machinery. Local economists are convinced that the manufac-

turing diversity implied in those comparisons has saved the city

from even more damage than it has suffered during the reces-

Up to 65,000 manufacturing jobs are thought to have been

lost since the recession began to bite in 1979, a fall of around

25 per cent. Although there are signs of an improvement —

both Ford and General Motors

have been recalling workers to their metropolitan Cleveland

plants as demand for cars con-

tinues to grow throughout the

country — Cleveland's indus-tries have yet to benefit sub-stantially from the national

electrical machinery, steel, tools and fabricated metals. They are all highly susceptible to cycles and, though fundamental

to any large national manufac-

turing economy, have only modest growth prospects.

Typically, the city and its

and precision forged gears in the United

■ Manufacture and market reinforced

plastic hoses and tubings in Belgium, and

Serve semiconductor manufacturing and

Serve microwave instruments customers

with marketing offices in France, Greece,

Italy, the Netherlands, Spain, the United

Kingdom and West Germany.

testing customers with marketing offices in

France, the United Kingdom and West

maintain a marketing-office in the United

surrounding industries have tended to produce components,

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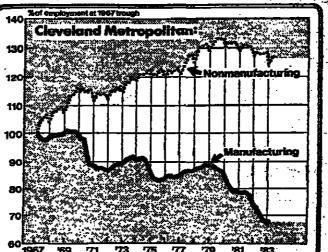
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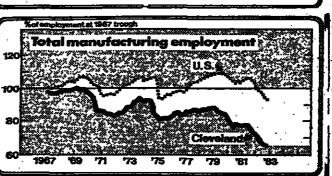
force in the metropolitan area. There were recoveries in 1972 and 1976, but these same industries now employ only 25

The most visible losses have

the smaller machine shops have proved themselves to be very flexible and resilient during hard times. They are not organised by the unions and find it easy to lay off and re-hire, when demand picks up, from a vast pool of experienced local machinists. The mediumsized fabricators and subcon-tractors face a different set of pressures. Most are locked into agreements with trade unions and survival through the recession has meant severe belt

not necessarily for consumer points during the recession, a goods and this has meant that the Cleveland manufacturers brought nawn their breakeven points during the recession, a says Mr James Trutko, and the Cleveland manufacturers with the Growth Association. "We should be





much more resilient. I think we been reduced by around \$100m. are going to see a great deal of according to its chief executive, modernisation during this cycle Mr Fred Searby. and we won't only be modern-

That holds true particularly for the tyre producers around Akron. Firestone's net income improved from \$6m to \$111m gin to turn last year's \$60m last year with virtually no losses into profits towards the change in turnover. Similarly, end of the year. The other income at B.F. Goodrich reached \$18.4m after a 1982 loss of \$32.8m, while General Tire & Rubber's net profits rose 247 its exposure to the crowded con-per cent on sales growth of just ventional machine tool markets

tion, for exemple (recently sold machine tool scale, some pro-by Bendix's new parent, Allied, ducers have managed to soften Cross and Trecker) where the old Warner and Swasey lathe group still form the core lathe group still form the core stance, a producer of customised - Existing manufacturers are company, breakeven point has machines, began making small being encouraged to talk, at a

Bendix had closed two Cleve-

ising ourselves, we'll be helping land machine tool plants and other people modernise." . cut 1,000 local jobs while it controlled the group and Mr Searby expects Warner and Swasey and its associated companies to bemajor local machine tool builder, Acme Cleveland, has also cut jobs and sought to diminish Some of the machinery companies have also found the necessary financial muscle to rationalise. At Bendix Antonia wentional machine tool markets by buying a high technology laser system produced in California, despite a \$32m loss last year.

the effects of the recession by diversifying. Hill Acme for in-

valves in the Seventies and has found a fucrative niche in the scuba equipment market to help smooth over the machine tool

Republic Steel has cut its. Cleveland workforce to around 5,000, from nearly 10,000 three years 2go, and installed modern continuous casting equipment at its integrated Cleveland works. The \$14m investment at the works, which sit just across the Cuyahoga river from a similar plant belonging to Republic's new parent, LTV, must have made it one of the most attractivee plants in the merger between Republic and Jones & Laughlin Steel, the LTV steel

The two works are likely to begin loading much of the volume steels, chiefly for the motor industry, onto the Republic plant's caster, the only facility of its kind in the area, once the merger is completed.
While the merger of Republic
and J & L may have saved the
two companies plants in the heart of the city, Cleveland's steel industry, like that in the rest of the country, still has a lot of streamlining to do.

U.S. Steel has begun to lay off people at its Cuyahoga Works in the run-up to the complete closure of the wire and strip mill and the fate of the U.S. Steel tube operations in nearby Lorain also hangs in the

The steel tubes market, particularly in the once lucrative of field markets, has all but dissappeared in the past two

The shrinkage in iron and steel has not been confined to the intergrated steelmakers either. Founderies bave also been hit. "You cannot get large castings in Cleveland any more," complained one machine tool maker. "There used to be three or four."

Cleveland's business community, galvanised by the severity of the recession into addressing the problem of the city's industrial base, has come up with a three-point action plan to stop the rot and, con-ceding that the prospect of enticing new industry to the area from outside is remote, encourage new ventures from within.

senior level, with trade unionists, in an effort to arrive at joint strategies to increase competitiveness, and to modernise manufacturing pro-reduces. The action plan, put together by the Cleveland To-merrow Committee, chaired by Eaton chairman, Mr E. Mandel de Windt has also proposed set-ting up a local productivity centre to enable businesses to

share to change brannesses to share technical expertise.

A second aspect to the action plan would involve an attempt to foster the growth of new industries, largely through creating a mix of research and venture capital resources.
Finally, the plan calls for the creation of a programme to address the causes contributing to the decline of industry around the city.

### Labour costs high

The committee blames the decline of the city's manufacturing base almost entirely on turing base aimost entirely on high unif labour costs, a position which may make it that much more difficult for management to talk to the unions. Already there are signs in the city that even where union leadership is talking to the business community in an attempt to arive at a consensus of sorts for future action, rank and file members are resisting calls for an end to restrictive practices. an end to restrictive practices.
"It was the management that agreed to our work practices when they were only too keen to see the merchandise move out the door," says one activist. "now they want us to roll over and hand it all back."

Union leaders are not likely to put their political careers on the block for the Cleveland Tomorrow programmes if they sense that their membership is not going to take them on board and the next year could prove to be the make or break period. Without union support, the schemes designed to buoy up the basic industries will prob-

ably fall by the wayside.

Mr Bill Seelbach, director of
the Cleveland Tomorrow programme, believes however, that the message on costs will get through. "Labour management co-operation in the city's future is happening as it has never happened before," he says. "The smart (union) guys realise that they have got themselves into

Two profiles which illustrate the contrasting fortunes of new and traditional industries. Reports by Peter Bruce

# How Tecmar plugged into IBM

CAROLINE AND MARTIN aspert ("Marty" to just about everyone) are the kind m Cleveland's leaders and its publicists dream about. In 1981 they formed the entire staff of their company, Tecmar, now locaten in a new \$2m plant in one of the greenfield indus-trial areas that surround the city. Today, with sales esti-mated at more than \$40m this year, there are 400 people on

the payroll. Teemar make computer "add ons" the memory boards, disc drives, networking packages, video and graphics boards and some software and the company is now reckoned to be the biggest single source of peripherals and boosters to the IBM personal computer

Martin, with degrees in medicine and blemedical engineering, and Caroline, who gave up nursing to take University in the city, began working on a device in 1974 to help diagnose lung diseases during a year at Clevland's

University Hospitals.
The Pulmonary Diagnostic Instrument (PDI) took the Alperts five years to build and the Cleveland medical estab-lishment when they first began testing it on patients in 1979, their research was not wasted.

In building the PDI the Alperts had designed computer components, basically memory boards, not on the open market, and sales of these had taken their fields. memory boards, not on the open market, and sales of these had taken their fledging company (Tecmar stands for "Marty's technology") into the \$50,000 a year league. The Alperts, however, had seen the IBM personal computer coming and, so the story goes, they beught the first two sold in the U.S. in October 1981.

The couple immediately began designing peripherals for the PC, taking their two new computers apart and designing interfaces in reverse. Six weeks later, at a computer exhibition in Las.

Vegas, the Tecmar add ons took the market by storm. Although Tecmar now does .

peripherals for other com-

puters, including Apple, the link with IEM has been critical and if is a close one, which probably solidified in IBM that three IBM executives had been trying to sell him new design secrets.
"Our market is the world," says newly-hired chief operat-

ing officer Henry Caplan.
"Wherever the IBM PC is, so Capian's arrival probably marks the beginning of a new phase in Tecniar's growth. It phase in Tecmar's growth. It does at least coincide with the fact that the 35 per cent to 40 per cent growth in sales every month for the past 30 months has begun to fall away. "The way you deal with that is to below in growth."

with that is to bring in guys like me," he says. Caplan, an experienced computer industry executive and certainly older than the two Alperts, both of whom are in their early thirties, says the company had to borrow money for the first time ever recently and probably needs to an mable.

to go public.
"I want us to be as hig as possible," he says, "but not moselithic. We have no bureaucracy here and we can



Dr Martin Alpert (Marty) now has 400 on the payroll of his compa

move quickly." What the Alperts, and Caplan, clearly have in mind is expansion, either through acquisition or on their own. A head of international operations has just been appointed to Brussels and the company is looking for its exports business to grow to around 35 per cent

# Machine tool decline hits Hygrade

are able to supply the city's machine tool or component producers with one off pieces

the closure of Caterpillar's lift Joel, "but when it comes it going to go under"

the year, after their lesse truck plants in the area that can come so fast. What do you Conservatism of that sort is expired. The move to a suburb accounted for most of the customer losses, "About half our business, "About half our business, "Bout half our business? Hygrade never Several large manufacturing to persuade them to stay."

It would be suicide for the we wouldn't have quoted him.
Liptaks to turn down even loss on that. It makes us look bad."

in the black for nearly a year.

Hygrade, run by Joseph Liptak, 70, and his sons Joel, 40 and Leonard, 34, has been making ligs and fixtures in Cleveland since 1946. Joel says his father has never seen business so bad "He's never had to lay people off before," he says, "and that really hurt him."

Until three years ago, says Joel, business was like water running from a tap. "Then it just turned off." Like many of Cleveland's job shops Hygrade are able to supply the city's and that really the city's lay provided in the largely idle six small pieces. The customer machine shop have been taken on even though they'll lose in twice as high as the winning on monsy on them.

It would be suicide for the we wouldn't have quoted him that It makes us look bad."

are able to supply the city's machine tool or component producers with one off pieces of machined metal simply too time consuming to be done in house. But in the space of three years or so the Liptak family have seen their customer base virtually disappear.

Chiefly, it was the purchase of Warner and Swasey, the lathe makers, by Bendix, and the closure of Caterpillar's lift truck plants in the area that component of turn down even loss on that It makes us look bad."

Joseph Liptak, apparently customers to have once worked stubornly refusing to retire, has often warned his sons about the F-18 fighter, the smart buildings being planned along the of customers and the strength of any kind. "He's told us to Cryahoga river and the political such that you're going to start to build a soon work at short notice.

"People wait so long to go are foreign to you, that you're going to a start the beginning of the closure of Caterpillar's lift towns nothing about, and you're the city at the beginning of the year, after their lease truck plants in the area that component of turn down even loss on that It makes us look bad."

Joseph Liptak, apparently customers to have once worked stubornly refusing to retire, has other warned his sons about the F-18 fighter, the smart buildings being planned along the Cryahoga river and the political makers with one thing," says swirl over whether to build a soon work at short notice.

"People wait so long to go any kind." He's told us to Cryahoga river and the political makers with one thing," says swirl over whether to build a soon work at short notice.

"People wait so long to go any kind." He's told us to Cryahoga river and the political may be a suffer to build a soon work at short or truck with one thing," says swirl over whether to build a soon work at short or truck with the political may be a suffer to build a soon work at short or truck with the political or truck with the political store.

"People wait so long to compare the customer and the F-18 fighter, the mart build the F-18 fig

THERE ARE at least 150 companies, employing fewer than 10 people, making Jigs, tools, fixtures and dies in Cleveland and they are almost all in trouble. Hygrade Machine and Tool is one of them Typically, it is a family business and to the recession. "There's father would go round." says to get it.

The Liptaks have not bought really had a salesman when groups have based operations around the city precisely provided the city precisely and they are almost all in the machine shop, takes and Addressograph Multi-six men in the machine shop, takes) and Addressograph Multi-six men in the machine shop, takes) and Addressograph Multi-six men in the machine shop, takes) and Addressograph Multi-six men in the machine shop, takes) and Addressograph Multi-six men in the machine shop, takes) and Addressograph Multi-six men in the round the city precisely and there some the job shops are there around the city precisely six men in the machine shop, takes) and Addressograph Multi-six men in the recession. "There's father was any trouble then off orders that require special tooling. Quite where they fit into the fubruistic visions of civeland's planners is any body's guess but the Liptaks are body's guess but the Liptaks are a dwindling breed.

"I'm waiting to see what the summer holds out," says Joel. This is in itself a sign of the times as summer has traditionally been a stack period for the company. "We were down to four days a week, seven hours a day in December, but there are dribbles coming in. How much longer before the flood comes in I don't know. We work

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每下日外看所见到感到感见几点玩? 42 就不是有心态,我是我们是我的感染的人,我们说:"我们是我们是我们是我们是我们是我们是我们的人,我们就是我们是我们的人,我们就是我们

Closing prices April 6

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Individend also entra(9). b-ennual rate of dividend plus stock dividend, c-Equidating dividend, cid-called, d-new yearly low, e-dividend declared or pad in preceding 12 months, g-dividend in Canadian funds, subject to 15% non-residence tax. I dividend declared after split-tup or stock dividend I-dividend paid this year, on this dividend declared or pad in the steat of transmistre bases with dividends or pad this year, an accumulative bases with dividends in america, n-new issue in the past 52 weeks. The high-low range begins with the steat of transmister bases with dividends in america, n-new issue in the case of the pad of the preceding 12 months, plus stock dividend, a-stock split. Dividends begins with date of split, sis-sales. Individend paid in stock in preceding 12 months, plus stock dividend, a-stock split. Dividends begins with date of split, sis-sales. Individend paid in stock in preceding 12 months, plus stock dividend, a-stock split. Dividends begins with date of split, sis-sales. Individend or ex-distribution date, u-new yearly high, v-trading halted, v--n bankruptcy or receivership or being reorganed under the Bankruptcy Act, or securities assumed by such companies, wd-when cistributed, wi-when issued, wwwwith warrants, x-ex-dividend or ex-dividend and seles in full, yid-yield, z-sales in full.

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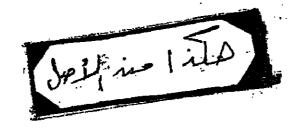
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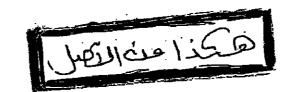
# WORLD STOCK MARKETS

| OVER-THE-COUNTER  Nasdaq national market, closing prices April 6   | CANADA   | AUSTRIA  1983/64 April 6 Pric  | NORWAY  1985/84 April 5 Price High Low Urgeon  | HONG KONG  |
|--|--|--|--|--|
| Stock Soles High Low Lest Chang Stock Soles High Low Lest Chang Stock Soles High Low Lest Chang (Hads)  (Hads)  Stock Soles High Low Lest Chang (Hads)   | Sales Stock High Low Chose Chag TORONTO  | Right   Low  | 167 101.5 Sergens Satk 157.5<br>5 240 63 Serregaird 517.5<br>7 182.5 112.5 Christiania Sk. 158<br>7 176 117 Den Morak Gredit. 167.5  | #595   Low   H.N   Est Asia   24   10.9   -5.7   Electric Kong   -9   -9.7   Electric Kong   -9   -9.1   -1.2   -1 |
| AGS 1239 184 102 102 104 105 105 105 105 105 105 105 105 105 105   | Closing prices April 6  150 Abil Pres S25 25 26 -\frac{1}{2}  3716 Agrico E \$175, 172, 172 -\frac{1}{2}  4800 Agri to A 470 455 470 -5  5528 All Energy \$209, 209, 209, -\frac{1}{2}  100 Alla Net \$22 22 22 +\frac{1}{2}  880 Algo Cent \$20 20 20 -\frac{1}{2}  720 Algorins \$1 \$345, 245, 245, -\frac{1}{2}  500 Angra Wa 1 \$325, 245, 254, -\frac{1}{2}  500 Angra Wa 1 \$325, 245, 254, -\frac{1}{2}  500 Angra Wa 1 \$325, 245, 254, -\frac{1}{2}  500 Angra Wa 1 \$325, 245, 245, -\frac{1}{2}  500 Angra Wa 1 \$325, 245, 225, -\frac{1}{2}  500 Angra Wa 1 \$325, 245, 245, -\frac{1}{2}  500 Angra Wa 1 \$325, 245, 245, -\frac{1}{2}  500 Angra Wa 1 \$325, 245, 245, -\frac{1}{2}  500 Angra Wa 1 \$325, -\frac{1}{2}  500 |  | 109 57.5 Erkem 167<br>316 106 Horsk Data 278<br>607 272.5 Horsk Hydro 596<br>246 127.5 Storebrand 387.5  | 4.70 2.47/HK Kowkeen Wh. 4<br>5.00 2.25/HK Land 3<br>9.7 3.4 HK Shanghai BK 9<br>48 26.5 HK Telephone 42<br>18.9 8.00/Hutchison Wps. 17  |
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|  | 4080 BCFP \$11\clin 11\clin - \clin \text{1} 15\clin 11\clin - \clin \text{1} 1655 BC Res \$75 355 .375 +10 \$650 BC Res \$753\clin 21 \text{2} 15\clin \text{2} 15   | 5.850 3.660 Delheize 4.96<br>3.605 1.875 EBEE 5.550 4.460 Electrobei 5,56<br>3.900 1.910 Fabrique Nat 2.11<br>3.595 8.710 (8 inno SM 3.28<br>3.800 1.450 GBL (Erus) 2.55<br>5.330 1.740 Gevaert 3.23<br>6,480 5,600 Hobken 5,28  | 0   2,50   1,72   Aust Pather   1,98   5,90   5,65   0,172   Bond Corp Hidge   1,5   5,6   5,6   2,20   Brambles Inda   2,5   0,172   Brambles Inda   2,5   0,172   1,5    | JAPAN  |
| Form 5 60 25 13 13 13 14 Controls 40 11 15 15 15 17 Friedrick 25 134 134 141 Intend 5 6284 32 304 314 144 1<br>Form 1.40 101 30 231 231 1 Coron B .40 547 154 154 155 1 Friedrick .40 256 194 185 185 185 1 1 Intends 73 158 154 155 155 1 1 Intends 72 12 21 21 22 24 14 Coron 5 17 10 94 91 14 February 180 11 254 24 25 141 Intends 41 38 38 38 38 181  | 12500 Cad Frv 511½ 11½ 11½ 1 ± ½ 5176 Camflo 511½ 11½ 11½ 1 ± ½ 38108 C Nor West \$34 22½ 32½ -1½ 300 C Peciera \$27 27 27 27 2730 Cm Trust 522½ 21½ 22 - ½  | 5.480 5.600 Hobolean 5.20<br>2.660 1.780 Intercom 2.00<br>7.380 4.300 Kredietbank 7.00<br>9.850 4.300 Part Hidge 9.20<br>7.500 4.510 Petrofins 7.56<br>8.400 5.910 Royale Beige 8.40<br>3.415 2.505 Soc. Gen. Banq 3.445 2.025 1.200 Soc. Gen. Banq 3.505 Soc. Gen | 2.80   2.80   Bridge QE  | 1983/84 April 7 P<br>High   Low   Alimemete   1<br>1,170 805   Alimemete   1<br>2,8401,610   Alime Electric   1<br>1,689 816   Amede   1   |
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| goSys 31 154 154 155: Datsop 7 1274 1272 14 FuBHB 56 422 272 254 27 14 Junited 1 36 45 45 45 12 12 1272 14 Junited 1 36 45 45 45 14 1 Junited 1 36 45 45 14 1 Junited 1 36 45 16 16 16 16 16 16 16 16 16 16 16 16 16   | SUSS   Develoon   SISS, 185, 185, + 3, 183, + 3, 183, 183, + 3, 1828   Dickman A f   \$80, 63, 65, 65, 65, 56, + 3, 500   Domen A   \$65, 65, 65, 65, 65, 65, 65, 65, 65, 65,  | 262 180 Andelsbanken. 238 706 321 Baltic Skand. 544 350 176,6Cophandelsbank 216 865 296,6D, Sukkerfab 635 326 150 Denake Benk. 219, 216 88,6 East Aslatic 177 1,550 650 Forenede Brygs. 228 148 Forenede Brygs.  |  | 8,040i 3,460 (dream Gross 1, 520 560; Hssgawa  |
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| accon s 65 124, 1112, 114, -12.1 Drajon 8 64, 612 612, -14.1 Genest. 18 44, 414, 414, 414, 414, 414, 417, 417,   | 100 Frushmuf \$17½ 17½ + ½<br>400 Gendia A \$21½ 21 21½ - ½<br>4775 Genc Comp \$15½ 15½ 15%  | 534.6 170 Smidth (F.)  | 1 250   140  Thea Saturida   135   | 875 580 junce.<br>875 365 kajima<br>884 535 ka 8eap.<br>780 580 Kashiyama<br>586 383 kirin.  |
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| pher 1.24 1 211, 2112, 2112    Deror S. 14 1812, 1713, 1714, 1714   Deror S. 14 1812, 1713, 1714, 1714   Deror S. 14 1812, 1713, 1714   Deror S. 14 1812, 1714, 1714   Deror S. 14 1812, 1714   Deror S. 14 1814   Deror S. 14 1812   Deror S. 14 1812   Deror S. 14 1812   Deror S. 14 1812   Deror S.  | 300 GL Forest \$855_ 855_ 855_ 185_ 182 Greyland \$231, 231, 231, -1, 1011 H Group A \$81, 61, 61, -1, 13130 Hrding A ( 255 225 225 -25 1270 Hewter \$16 132, 151, -1, 666 Hayes D \$181, 182, 163, 164, 164, 164, 164, 164, 164, 164, 164   | 1983/64   April 5   Price                        | 4 ITALY<br>8<br>5 1983/84 April 6 Price  | 1,520 755 Makita   |
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| AMERICAN STOCK EXCHANGE CLOSING PRICES   | 2000 McGraw H \$19 1874 19 + 1c<br>12050 Mertand E 460 455 450 - 5<br>82757 Meleson A V \$1774 1774 + 1s<br>302 Meleson B \$1774 1774 1774<br>250 Meleson B \$1774 1774 1774<br>45301 Mertanda \$224 267 242 + 1s<br>45301 Mertanda \$222 225 225 225 - 1  | 2,340   994   L'Oresi   1,880<br>470   285   Maleons Phenix   3,95<br>2,050   900   Matera S.A.   1,425<br>1,084   705   Michelin B.   910   | NETHERLANDS  | 1,960 880 Niippon OH 1,1<br>665 385 Niippon Salto ,<br>248 666 Nippon Shimpon S<br>100 135 Nippon Steel 1<br>368 265 Nippon Steel 1<br>16,800 4,040 NrV 1<br>268 224 Nippon Yusen 14   |
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| 24 Seleght 7 4 31; 31; 31; 31; 61; 1860 1 1860 1 6 9 65; 8 4 1 171, 65; Veguel 3 26 3.9 3 65; 65; 65; -1, 18<br>4 45; Sensich 8 51; 5 5 155; 9 1860 25 135 124; 12 12 -1; 85; 51; Vegler 113 85; 65; 65; 65; 65; 65; 65; 65; 65; 65; 6   | 850. Southern \$47\cdot 47\cdot 47\cdot - \frac{1}{2}\$ 100 St Breakest \$100\cdot 100\cdot 100\cdot + \frac{1}{2}\$ 28745 Sheep R 455 425 6676 Sulphro B 1 475 470 475 150 Sunchror pr \$24\cdot 24\cdot 24\cdot 2 + \frac{1}{2}\$ 28600 Synchror or \$24\cdot 115 125 + 5  | 872.5 496 Állianz Vers   | 285 181.0Rorento 202.5<br>165 99.2Royal Outoh 158.4<br>278.4 189.0Unitary 255.2  | 448 285Tellin 4<br>946 653Telkoku 91 6<br>708 450Tokyo Marine 6<br>897 465TB3 8<br>1,400 985Tokyo Elect.Par. 1,2   |
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| \$ SCEd pf.19 13. 4 9, 9, 9, 9, 9, 1 20, 68, Themat \$ 8.0 68, 68, 68, -i, 33 5CEd pf.19 11, 200 37, 230, 331, +1, 35 26i, 106d pf.25 15. 2176 29, 27, 27, -1, 14, 34, Wesper 111 4 62, 34, -i, 15, 17, 17, 17, 17, 17, 17, 17, 17, 17, 17   | MONTREAL Closing prices April 6  | 177 122,6 MAN  | 489 150 Me Cob Comajo. 475. 480 196 Pharmacia. 271 404 192 Saab-Scania 389 485 180 Sandvik 490 720 206 Skandia. 401 573 218 Skan Ensklida 548 217 114 SK7 216 791 550 St. Kopparbergs 790 306 156 Swedish Match. 274 529 270 Volvo B (Free) 490  | 1983/94 April 6 Pr<br>Rs<br>2.95 2.95 Abercom 2<br>10.90 7.00 E c C 2<br>31 23 Anglo Am. Cosl. 2<br>30.60 17.8 Anglo Am Corp. 2<br>158.25 110 Anglo Am. Gold. 15   |
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| ENERGY REVIEW  |  |  | 10.5 6.15 Melay Senting 10.3 7.20 4.50 Melay Senting 10.3 7.20 4.50 Melay Senting 10.3 1.24 1.18 8.5 COSC 10.5 1.94 1.18 8.5 COSC 10.5 4.4 1.58 8.5 COSC 10.5 4.4 1.58 85 1.58 | 10:8 7.6 Progr Pag. 18.0 5.76 Page Hidge 18.5 6.60 Page Hidge 18.5 6.60 Page Hidge 18.5 6.60 Page 18.2 Scribt (G.G.) 2.13.00 8.2 Trongest Huietts 1.5.90 3.96 Holgest 18.5 Page  |
| every Wednesday in the Financia  | l Times  |  | SWITZERLAND  1985/64   April 6   Price   Fre.   Fre.   Price   Price   Fre.   Price   Price   Fre.   Price   Price   Fre.   Price   Price   Fre.   Price   F | <b>SPAIN</b>   |
|  |  |  | 4,690 3,775 Bank Leu 5,850<br>1,580 960 Brown Bover 1,510<br>2,475 1,605 Ciba Gelay 2,878  | 1982/84 April 6 Pri<br>High Low Pro<br>294 909 Bec Silbab 25<br>237 956 Reo Omiral 33<br>220 195 See Exterior 33   |
|  |  |  | 748 501 Fischer (8eo) 589 3,800 3,425 Gerpevolee 7,700 112 25672 250 Hoff-RochePtCtx10b ase 11,125 5,975 Hoff-Roche 1/40, 9,950 6,750 550 Jacobs Suchard 6,575 2,009 1,500 Jelmoti 1,630   | 294 202 See Silbad 25<br>357 256 Rec Gentral 32<br>220 195 See Exterior 22<br>248 200 See Hispane 22<br>301 208 See Viziana 25<br>389 208 See Viziana 25<br>149 105 Dragados 14<br>57.7 39 Hidrols 4<br>88.2 39 Iberduero 11 5   |

### INTERNATIONAL GUIDE TO THE ARTS

every Friday in the Financial Times





# WORLD STOCK MARKETS

### **OVER-THE-COUNTER**

Nasdaq national market, closing prices April 6

|  | (Head  | s Right Law Last Chang   | Stock Sales  <br>(Hnds)  | tigh Low Last  | Clarg Sto  |   | ightlew Last Cheng  |
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| Miscorn 310 351, 331, 342, -1,   | NiCal g 103<br>NickOG 168  | 6 <sup>1</sup> 6 <sup>1</sup> 6 <sup>1</sup> + 1   | PayN 8 60 683  | 184 18 165   | -1g Red  | MoniL 52 79 2<br>was 258 7  | 24, 114, 124, +5<br>94, 295, 294, +4  |
|  | NelsA 76 x706<br>NelsB 76 x123   | 6 ⋅ 30 ⋅250 ⋅ 30 ⋅ a.b.  | Penter s. 75 21 1<br>PeopE s 1048  | 25 1 26 1 25 1<br>140 1 131 135 1  | Hgg<br>Heg<br>Hg<br>Hg<br>Hg<br>Hg<br>Hg   | gEs 20 757 8<br>65 .15 1 2  | 1, 84, 84, -31<br>71, 271, 271, -1  |
| MdSiFd S0e 201 3G 24 24 1  | Nine B .10s 1396<br>Nordat a .40 67<br>Nordat a .40 57   | 291 281 291 1  | PeopPt 148<br>Perpept 4<br>Petrits 1 96  | 1, 31, 31,<br>10 91, 10<br>27, 281, 261,   | + Rea  | ab 22 1   | 13, 111, 111, 114, 115, 115, 115, 115, 115  |
| 20) 64 64 64 -L  | Norstan 38<br>NASh s 133<br>NAS 1.36 85  | 81 <sub>2</sub> 81 <sub>2</sub> 81 <sub>3</sub><br>91, 91, 91, -1,<br>131, 131, 181,   | Physics 228  | 112 54 102   | નો Roll<br>નો Roll<br>નો Roll  | #th . 114 1<br>Ner 53 1   | 15 115 115  |
| MAETCH 5 33 32 33 -1   | NuNLI 1.50 66<br>Normby 2  | 374, 364, 364, -15,<br>61, 61, 62, ±1,   | PhoNet 6<br>PicSay s 1335<br>PicCate 60 635  | 74 74 75<br>22 24 25<br>164 165 165<br>184 174 18  | Rate<br>→ Rate<br>→ Rate   | on 35 1   | 0 94 94 -4  <br>4 74 74 +4  |
| Metrics .36 441 212 212 212 -12 145 145 14 14 14 14 14 14 14 14 14 14 14 14 14   | Novel 76 191<br>NociPh 254<br>Numers 115   | 39 32 32 4<br>8 74 5 -4<br>94 84 9 -2  | Promise 72 48 PlanStr 22 60  | 89-28-28-<br>28-28-28-   | - Pros   | rdS 2 860 8<br>Acor 279 1   | 04 10 104 +4 24 24 513 524 -4 25 25 104 105 2 2 314 314 -4  |
|  | <u> </u>   |  | 1 <b>vP</b> zzzT 517 5   | 24 2 2   | i Rou  | se 92 30 3  | 2 311, 311, -1,   |
|  | ices   |  |  | ا ما م   | .i. I.   |   |   |
| NEW YORK DOW JOS   | · ··· .  |  | <u></u>  | April Apr  | il Apr. A  | Pril High   | 15/84<br>}Low   |
| Apr. April Apr. Apr.   | Apr. 1983-   | Since Compitte Low High Low  | AUSTRALIA<br>All Ord. (1/1/88)<br>Metals & Minis. (1/1/80)   | 756.1 756.<br>588.7 588.   | 5 761,2 74<br>7 634,7 65   | 44.5 787.9 (8/1/64)<br>26.1 \$14.2 (6/8)  | 487.8 (4/1/85)<br>411.8 (4/1/85)  |
| ♦ Industria 1152,22 1150,55 1148,56 1148,  |  | 027,04 1287,99 41,92   | AUSTRIA<br>Credit Aliction (\$/1/62)   | 54.90 E4.  | <del>-</del>   -   |   |   |
| H'mo Bnds 68,09 68,32 68,  | 11 65.67 77.84 6   | 5/1/85) (29/11/83(2/7/82)<br>18.09 — — —<br>1/4/84)  |  | 1 0.35 54  | 97  55,22 \ (  | 55,50∤ 58,3 (6/5)<br>-  | 48,48 (15/2/65)   |
| Transport. 484.18 485.89 601;88 606.   | 54 508,15 (812,55 ) C  | (32.24   612.55   12.32<br>(1/65) (1/64) (8/7/62)  | BELGIUM<br>Beigian SE (51/12/68)   | 150,59 150.  | DS 148,82 T  | 47,07 150,58 (8/4/84)   | 100,50 (4/1/48)   |
| Utilities 125,48 124,96 126,11 125.  | 87 <b>126.</b> 18 <b>49.</b> 70   1  | 19.51   165.52   10.5  |  |  |  |   |   |
| Trading Vot  |  | 17/88) (20/4/68) (28/4/42)   | DENMARK  |  | 1  |   |   |
| Trading Vo. 86,620 181.75 92,860 57,8  | (61/15) (6   | (20)4/68) (28)4/69)<br>— — — —   | Copenhagen SE (6/1/85)<br>FRANCE   | (u) 185,4  | 1  | 225,21 (20/1/64)  | 100,00 (5/1,65)   |
| 4 Day's high 1107.87 (1156.83)   low 11  | (61/15) (5.<br>85,680 —  <br>88,35 (1141.02)   | UT (\$1) (2014)(1) (2014)(1)<br>— — — — — —  | Copenhagen SE (6/1/85)   | (u) 185,4  | 7 182,67 1   |   |   |
| Day's high 1257,87 (1158,83) low 11     Industrial div. yield2   | 28,35 (1141,02)<br>Mar. 23 Mar. 10   | (2014) (2 | Copenhagen SE (5/1/65) FRANCE CAC General (51/12/65) Ind Tendanos (50/12 85) GERMANY   | (u) 185,4  | 7 182,67 1   | 82,80 225,21 (20/1/84)<br>84,5 175,1 (25/1/84)  | 100,96 (5/1/45)<br>96,1 (5/1/45)<br>39,4 (5/1/64)   |
| 4 Day's high 1157,87 (1155,83) fow 11  | (37/18) (5<br>86 85,886 —<br>28,355 (1141,02)<br>Mar. 25 : Mar. 10<br>4.79 : 4.67  | (17,68) (28,4,69) (28,4,69)<br>6 Year ago (approx.   | Copenhagen SE (5/1/55) FRANCE CAG General (51/12/52)   | (u) 185,4<br>187,90 187,<br>168,8 708,   | 7 189,67 11<br>8 198,2 11<br>9 105,6 11  | 22.40 225.21 (20/1/84)<br>94.5 176.1 (25/1/84)<br>96.5 114.7 (25/1/84)  | 100.99 (5/1/65)<br>96.1 (5/1/65)<br>29.4 (5/1/64)<br>241.83 (25/1/65)<br>727.8 (25/1/65)  |
| 4 Day's high 1157,87 (1156,83) low 11 industrial div. yield\$   Mar. 30   4.74   | 28,535 (1141,02)<br>Mar. 25 Mar. 10<br>4.79 4.67   | 5 Year ago (approx<br>4.85   | Copenhagen SE (5/1/85) FRANCE GAG General (5/1/2/82) Ind Yendanoa (30/12 85) GERMANY FAZ-Aktien (51/12/65) Commerchank (1/12/65) HONG KONG   | (u) 185,4<br>187,50 187,<br>108,8 108,<br>545,12 546,<br>1912,4 1018,  | 7 182,67 1<br>8 198,2 1<br>9 105,9 1<br>29 548,61 54<br>6 1018,2 105   | 82.80 225.21 (20/1/84)<br>84.5 176.1 (25/1/84)<br>86.5 114.7 (25/1/84)<br>9.90 276.94 (2/2/84)<br>1898.5 (2/2/84)   | 108.99 (5/1/65)<br>98.1 (5/1/65)<br>39.4 (5/1/64)<br>241.83 (55/1/63)<br>727.8 (55/1/63)  |
| DOUT   86.620   191,75   92,830   87,8<br>• Pay's high 1157,87 (1158,83)   fow 11<br>Industrial div. yield%  | (61/15) (5. 25,880 — 28,35 (1141.02) Mar. 23; Mar. 14,67 4,67 4,67 4,67 4,67 4,67 4,67 4,67  | 5 Year ago (approx<br>4,85<br>34 Since Comit's<br>Low High Low   | Copenhagen SE (5/1/85) FRANCE CAC General (51/12/82) Ind Tendanca (50/12 85) GERMANY FAZ-Aktien (51/12/55) Commerzbank (1/12/55)   | (u) 185,4<br>187,50 187,<br>108,8 108,<br>545,12 546,<br>1912,4 1018,  | 7 182,67 1<br>8 198,2 1<br>9 105,9 1<br>29 348,61 548<br>0 1918,2 10   | 22.40 225.21 (20/1/84)<br>94.5 176.1 (25/1/84)<br>96.5 114.7 (25/1/84)  | 100.99 (5/1/65)<br>90.1 (5/1/65)<br>20.4 (5/1/64)<br>241.28 (25/1/65)<br>727.8 (25/1/65)<br>690.96 (4/15)   |
| ### Day's high 1107.87 (1158.83) fow 11 Industrial div. yield% ####################################  | (61/15) (5. 25,886 — 23,35 (1141,02) Mar. 25 Mar. 10 4.79 4.57 High 11 182,25 194,84 High 11 182,25 172,86 High 11 182,25 High 12 182,25 High 1 | 5 Year ago (approx<br>4.85<br>84 Since Comilt's<br>Low High Low<br>54.85 194.84 5.82<br>57.650 (89.950) (89.845)   | Copenhagen SE (5/1/85) FRANCE GAG General (5/1/2/82) Ind Yendanoa (30/12 85) GERMANY FAZ-Aktien (51/12/65) Commerchank (1/12/65) HONG KONG   | (u) 185,4<br>167,80 187,<br>198,8 188,<br>198,8 198,<br>1912,4 1016,<br>1884,82 1085,  | 7 189,67 1:<br>8 189,2 1:<br>9 105,5 1:<br>29 348,61 540<br>0 1016,2 10:   | 82,89 225.21 (20/1/84)<br>84.5 175.1 (25/1/84)<br>85.5 114.7 (25/1/84)<br>8.50 276.84 (2/2/84)<br>1896.5 (2/2/84)<br>1996.5 (2/2/84)  | 261,65 (5/1,65)<br>26.1 (5/1,65)<br>26.4 (5/1,64)<br>261,63 (55/1,65)<br>727.8 (25/1,65)<br>650,96 (4/15)   |
| ### Day's high 1257.87 (2158.83) fow 11 industrial div. yield% ####################################  | (61/15) (5. 85,880 — 23,35 (1141,02) Mar. 23; Mar. 14.57 4.57 4.57 2 High 1 158.25 194.84 11 158.25 194.84 11 (10/16) (10/16) (10/16) (10/16) (10/16)  | 5 Year ago (approx<br>4,85<br>34 Since Comit's<br>Low High Low   | Copenhagen SE (5/1/85) FRANCE CAG General (5/1/2/82) Ind Yendanca (50/12/85) GERMANY FAZ-Aktien (51/12/86) Commerzbank (1/12/85) HONG KONG Hang Seng Bank(51/7/84) ITALY Banca Comm Ital. (1977)   | (u) 185.4<br>167.80 167.<br>168.8 768.<br>546.12 546.<br>1912.4 1016.<br>1984.32 1085.   | 7 182,67 1:<br>8 198,2 1:<br>9 105,3 1:<br>19 346,61 54<br>0 1919,2 10:<br>87 (c) 109  | 192,89 225.21 (20/1/84) 194.5 176.1 (25/1/84) 195.5 114.7 (25/1/84) 19.90 570.84 (2/2/84) 19.90 1890.5 (2/2/84) 19.5.18 1179.55 (19/5/84) 19.5.2 229.57 (8/1/84)  | 108.99 (6/1/85)<br>98.1 (2/1/85)<br>29.4 (3/1/84)<br>241.28 (25/1/85)<br>727.2 (25/1/85)<br>680.96 (4/15)   |
| ### Day's high 1257.87 (1258.83) fow 11 industrial div. yield ### Apr. ###  | (61/15) (5. 25, 586 — (5. 25, 586 — (5. 25) (61/15) (7. 25) (61/15) (7. 25) (61/15) (7. 25) (7 | 5 Year ago (approx<br>4.85<br>84 Since Comill's<br>Low High Low<br>54.86 194.94 5.82<br>57.165 (194.94 6.85)<br>88.84 17.85 (39.848)<br>87.185 (194.94) (16.82)<br>1 Year ago (approx<br>4.30  | Copenhagen SE (5/1/85) FRANCE CAC General (51/12/82) Ind Tendanca (59/12 85) GERMANY FAZ-Aktien (51/12/65) Commerzbank (1/12/65) HONG KONG Hang Seng Bank(51/1/64) ITALY Sanca Comm Hal. (1977)  | (u) 185.4<br>167.80 167.<br>168.8 768.<br>546.12 546.<br>1912.4 1016.<br>1984.32 1085.   | 7 182,67 t<br>8 188,2 1<br>9 105,9 1<br>105,9 1<br>19 105,9 1<br>10 1918,2 1<br>10 10 10 10 10 10 10 10 10 10 10 10 10 1   | 82,89 225.21 (20/1/84)<br>84.5 175.1 (25/1/84)<br>85.5 114.7 (25/1/84)<br>8.50 276.84 (2/2/84)<br>1896.5 (2/2/84)<br>1996.5 (2/2/84)  | 108.99 (6/1/45)<br>98.1 (8/1/45)<br>98.4 (8/1/44)<br>241.88 (25/1/45)<br>727.8 (25/1/45)<br>880.96 (4/15)   |
| ### Day's high 1257.87 (2158.83) fow 11 industrial div. yield ### Apr. 30 industrial div. yield ### Apr. 4.74  #### STANDARD AND POORS    Apr.   April   Apr.   Apr.   Apr.   5 industrial   175.88   175.87   178.22   178.2  | (61/15) (5. 25, 586 — (61/15) (6. 25, 586 — (61/15) (6 | 5 Year ago (approx<br>4.85<br>84 Since Comill's<br>Low High Low<br>54.85 194.64 5.82<br>57.165 194.64 5.82<br>172.85 (364.85)<br>172.85 (46.82)<br>172.85 (46.82)<br>172.85 (46.82)<br>172.85 (46.82)<br>172.85 (46.82)<br>172.85 (46.82)<br>172.84  | Copenhagen SE (5/1/85) FRANCE CAG Ceneral (5/1/2/82) Ind Tendanca (50/12/85) Ind Tendanca (50/12/85) GERMANY FAZ-Aktien (51/12/85) Commerzbank (1/12/85) HONG KONG Hang Seng Bank(51/7/64) ITALY Sanca Comm Hal. (1977) JAPAN** Mikkei-Dow (18/6/45) Tokyo SE New (4/1/88) NETHERLANDS ANP-CBS General (1970)  | (u) 185.4<br>167.80 187.<br>168.8 168.<br>1912.4 1016.<br>1984.82 1085.<br>215.68 216.<br>1984.73 1085.<br>168.5 188.6   | 7 182,67 1: 8 198,2 1: 9 105,8 1: 10 1018,2 1: 10 1018,2 1: 10 214,78 2 10 214,78 2 10 214,78 2 10 214,78 2  | 12.80 225.21 (20/1/84)  126.5 176.1 (25/1/84)  136.5 114.7 (25/1/84)  136.6 2/2/84)  137.12 1179.55 (12/5/84)  14.7 (25/1/84)  15.12 1179.55 (12/5/84)  15.32 228.57 (8/1/84)  15.32 228.57 (8/1/84)  15.32 228.57 (8/1/84)   | 108.99 (5/1/45)  98.1 (5/1/45)  98.1 (5/1/45)  241.89 (25/1/45)  727.2 (25/1/45)  580.96 (4/13)  160.45 (19/1/85)  7965.18 (25/1/85)  100.1 (4/1/85)  |
| ### Day's high 1257.87 (1258.83) fow 11 industrial div. yield ### Apr. ###  | (61/18) (5.28) (61/18) (6.28) (61/18) (6.28) (61/18) ( | 5 Year ago (approx<br>4.85<br>34 Since Comill's<br>Low High Low<br>54.85 194.94 5.32<br>54.85 194.94 5.32<br>54.85 194.94 (195.92)<br>12.95 4.49<br>17.83 (196.92) (195.92)<br>1 Year ago (approx<br>4.30<br>12.94   | Copenhagen SE (5/1/85) FRANCE CAC General (51/12/82) Ind Tendanca (59/12/85) Ind Tendanca (59/12/85) GERMANY FAZ-Aktien (51/12/86) Commerzbank (1/12/65) HONG KONG Hang Seng Bank(51/7/64 ITALY Sanca Comm Ital. (1977 JAPAN   | (u) 185,4<br>187,89 187,<br>198,8 708,<br>345,12 846,<br>1912,4 1018,<br>1984,82 1085.<br>215,68 216,<br>1984,75 12985,<br>955,51 885,6  | 7 182,67 1: 8 198,2 1: 9 105,8 1: 10 1018,2 1: 10 1018,2 1: 10 214,78 2 10 214,78 2 10 214,78 2 10 214,78 2  | 82,89 225.21 (20/1/84)  84.5 175.1 (25/1/84)  85.5 114.7 (25/1/84)  8.50 578.84 (2/2/84)  8.50 1296.5 (2/2/84)  15.18 1179.55 (12/5/84)  16.52 228.57 (8/1/84)  855.8 11.850.19 (2/4/84)  877.78 578.52 (2/4/84)  | 108.96 (6/1/65) 98.1 (5/1/65) 98.4 (3/1/64) 241.88 (25/1/63) 727.8 (25/1/63) 680.96 (4/15) 168.45 (18/1/65) 7905.16 (25/1/65) 574.51 (25/1/65)  |
| ### Day's high 1157.87 (1158.83) fow 11 industrial div. yield ### Apr. 4.74  ### STANDARD AND POORS    Apr.   April   Apr.   Apr | (61/15) (5.25) (61/15) (6.25) (61/15) (6.25) (61/15) ( | 5 Year ago (approx<br>4.85<br>84 Since Comill's<br>Low High Low<br>54.85 194.64 5.82<br>57.165 194.64 5.82<br>172.85 (364.85)<br>172.85 (46.82)<br>172.85 (46.82)<br>172.85 (46.82)<br>172.85 (46.82)<br>172.85 (46.82)<br>172.85 (46.82)<br>172.84  | Copenhagen SE (5/1/85) FRANCE CAG Ceneral (5/1/2/82) Ind Tendanca (50/12/85) Ind Tendanca (50/12/85) GERMANY FAZ-Aktien (51/12/85) Commerzbank (1/12/85) HONG KONG Hang Seng Bank(51/7/64) ITALY Sanca Comm Hal. (1977) JAPAN** Mikkei-Dow (18/6/45) Tokyo SE New (4/1/88) NETHERLANDS ANP-CBS General (1970)  | (u) 185.4<br>167.80 187.<br>168.8 168.<br>1912.4 1016.<br>1984.82 1085.<br>215.68 216.<br>1984.73 1085.<br>168.5 188.6   | 7 182,67 11<br>8 198,2 11<br>9 105,0 11<br>29 348,61 540<br>0 1016,2 101<br>87 (c) 109<br>15 274,78 2<br>15 274,78 2<br>16 278,24 31<br>5 182,5 16<br>7 180,4 18   | 192,89 225.21 (20/1/84) 194.5 176.1 (25/1/84) 195.5 114.7 (25/1/84) 195.9 376.84 (2/2/84) 195.1 1179.55 (12/5/84) 195.1 1179.55 (12/5/84) 195.2 228.57 (8/1/84) 195.8 176.82 (2/4/84) 177.9 576.82 (2/4/84) 12.8 176.9 (1/2/84) 11.1 147.2 (1/2/84)   | 108.96 (5/1/65) 98.1 (5/1/65) 98.4 (5/1/64) 241.83 (25/1/65) 727.2 (25/1/65) 689.96 (4/15) 168.45 (18/1/65) 7965.18 (25/1/65) 190.1 (4/1/65) 88.51 (4/1/65)   |
| ### Day's high 1257.87 (1258.83) fow 11 Industrial div. yield% ### Apr. Apr. Apr. Apr. Apr. Apr. Apr. Apr.   | (61/15) (5. 15. 15. 15. 15. 15. 15. 15. 15. 15. 1  | 5 Year ago (approx 4.85  84 Since Comitt's Low High Low 54.85  84 Since Comitt's Capprox 4.85  84 Since Comitt's Capprox 4.85  84 Since Comitt's Capprox 4.85  84 Since Comitt's Capprox 4.80  12.94  10.46  10.46  10.46  10.46  10.46  10.46  10.46  | Copenhagen SE (5/1/85) FRANCE CAG General (5/1/2/82) Ind Tendanca (50/12 85) GERMANY FAZ-Aktien (51/12/85) Commerzbank (1/12/85) HONG KONG Hang Seng Bank(51/7/64  ITALY Banca Comm Hal. (1977 JAPAN** Mikkei-Dow (18/6/43) Tokyo SE New (4/1/88) NETHERLANDS AMP-CBS General (1970) AMP-CBS Indust (1976) NORWAY Oxio SE (4/1 85) SINGAPORE   | (u) 185.4<br>167.86 167.<br>168.8 168.<br>198.4 178.<br>1984.32 1985.<br>1984.72 1985.<br>188.5 188.9<br>189.5 189.5<br>189.5 189.5  | 7 182,67 to 182,   | 82,80 225.21 (20/1/84)  84.5 175.1 (25/1/84)  85.5 114.7 (25/1/84)  8.50 276.84 (2/2/84)  85.18 1179.35 (12/8/84)  85.18 1179.35 (12/8/84)  85.2 228.57 (8/1/84)  85.3 (14/84)  85.4 (14/84)  85.4 (14/84)  87.70 578.82 (2/4/84)  87.71 177.2 (1/2/84)   | 100.96 (5/1/65) 98.1 (5/1/65) 98.4 (5/1/64) 241.29 (25/1/65) 727.5 (25/1/65) 580.96 (4/13) 160.45 (19/1/65) 7965.16 (25/1/65) 190.1 (4/1/65) 55.5 (4/1/65)  |
| ### Day's high 1257.87 (1158.83) fow 11 Industrial div. yield% ### Apr. Apr. Apr. Apr. Apr. Apr. B ### Apr. B ## | (61/15) (5. 15. 15. 15. 15. 15. 15. 15. 15. 15. 1  | 5 Year ago (approx 4,85  84 Since Comilt's Low High Low 84,85 194,84 5,82 87,637 (8,96,83) 82,84 12,85 4,86 14,483 (8,86,83) 14,483 (8,86,83) 12,94 10,46 10 | Copenhagen SE (5/1/85) FRANCE CAC General (5/1/2/82) Ind Tendanca (56/12/85) GERMANY FAZ-Aktien (51/12/85) Commerzbank (1/12/85) HOMG KONG Hang Seng Bank(51/1/84) ITALY Sanca Comm Hal. (1977) JAPANSS Nikkei-Dow (18/6/48) Tokyo SE New (4/1/88) NETHERLANDS AMP-CBS Indust (1978) NORWAY Onto SE (4/1/85)   | (u) 185.4<br>167.90 187.<br>199.5 179.<br>545.12 546.<br>1912.4 1016.<br>1984.32 1085.<br>275.68 276.<br>956.5 1884.8<br>188.5 189.<br>179.4 130.  | 7 182,67 11<br>8 188,2 11<br>9 105,8 11<br>29 346,61 546<br>6 1916,2 10<br>67 (c) 709<br>15 274,78 2<br>15 274,78 2<br>15 274,78 2<br>15 274,78 2<br>15 274,78 2<br>15 274,78 2<br>16 278,24 81  | 192,89 225.21 (20/1/84) 194.5 176.1 (25/1/84) 195.5 114.7 (25/1/84) 195.9 376.84 (2/2/84) 195.1 1179.55 (12/5/84) 195.1 1179.55 (12/5/84) 195.2 228.57 (8/1/84) 195.8 176.82 (2/4/84) 177.9 576.82 (2/4/84) 12.8 176.9 (1/2/84) 11.1 147.2 (1/2/84)   | 108.99 (6/1/85) 98.1 (5/1/85) 98.4 (3/1/84) 241.88 (25/1/85) 727.8 (25/1/85) 890.98 (4/15) 168.45 (18/1/85) 7365.18 (25/1/85) 574.51 (25/1/85) 100.1 (4/1/85) 85.5 (4/1/85)   |
| ### Day's high 1257.87 (1258.83) fow 11 Industrial div. yield% ### Apr. Apr. Apr. Apr. Apr. Apr. Apr. Apr.   | (61/15) (5. 25. 25. 25. 25. 25. 25. 25. 25. 25. 2  | 5 Year ago (approx 4,85  84 Since Comill's Low High Low 54,85 194,64 5,82 17,65 194,64 5,82 17,65 194,64 (1,6,82) 1 Year ago (approx 4,80 12,94 10,46 | Copenhagen SE (5/1/85) FRANCE CAG General (5/1/2/82) Ind Yendanca (56/12/85) Ind Yendanca (56/12/85) GERMANY FAZ-Aktien (51/12/86) Commerzbank (1/12/85) HONG KONG Hung Seng Bank(51/1/64  ITALY Sanca Comm Mal. (1979 JAPAN** Mikkel-Dow (18/6/43) Tokyo SE New (4/1/88) NETHERLANDS AMP-GBS General (1976) AMP-GBS Indust (1978) NORWAY Oslo SE (4/1/88) SINGAPORE Straits Times (1986)  | (u) 185.4<br>167.86 167.<br>168.8 168.<br>198.4 178.<br>1984.32 1985.<br>1984.72 1985.<br>188.5 188.9<br>189.5 189.5<br>189.5 189.5  | 7 182,67 1: 8 198,2 1: 9 105,5 1: 9 105,5 1: 9 105,5 1: 15 214,78 2 16 274,78 2 17 182,6 1: 16 274,78 2 17 182,6 1: 18 282,44 2: 18 282,44 2: 18 282,44 2: 18 282,44 2:  | 82,80 225.21 (20/1/84)  84.5 175.1 (25/1/84)  85.5 114.7 (25/1/84)  8.50 276.84 (2/2/84)  85.18 1179.35 (12/8/84)  85.18 1179.35 (12/8/84)  85.2 228.57 (8/1/84)  85.3 (14/84)  85.4 (14/84)  85.4 (14/84)  87.70 578.82 (2/4/84)  87.71 177.2 (1/2/84)   | 100.99 (6/1/65) 98.1 (2/1/65) 29.4 (3/1/64) 241.28 (25/1/65) 259.96 (4/15) 168.45 (18/1/65) 1708.18 (25/1/65) 1708.18 (25/1/65) 100.1 (4/1/65) 28.61 (4/1/65) 29.61 (4/1/65) 29.61 (4/1/65)   |
| ### Day's high 1157.87 (1158.83) fow 11 industrial div. yield ### Apr. 4.74  ### STANDARD AND POORS    Apr. Apr. Apr. 4  | (61/15) (5. 85,886 — (61/15) (6. 85,886 — (61/15) (61/15) (61/15) (7. 85 )  | 5 Year ago (approx 4,85  84 Since Comilt's Low High Low 84,85 194,84 5,82 87,637 (8,96,83) 82,84 12,85 4,86 14,483 (8,86,83) 14,483 (8,86,83) 12,94 10,46 10 | Copenhagen SE (5/1/85) FRANCE CAG General (5/1/2/82) Ind Yendamos (69/12/85) Ind Yendamos (69/12/85) GERMANY FAZ-Aktien (61/12/86) Commerzbank (1/12/86) HONG KONG Hang Seng Bank(61/1/84) ITALY Sanca Comm Ital. (1975) JAPAN** Nikkei-Dow (18/6/43) Tokyo SE New (4/1/88) NETHERLANDS ANP-CBS General (1976) ANP-CBS Indust (1976) NORWAY Onlo SE (4/1/86) SINGAPORE Straits Times (1988) SOUTH AFRICA Gold (1956)   | (u) 185.4<br>187.90 187.<br>199.5 108.<br>345.12 546.<br>1912.4 1016.<br>1984.32 1085.<br>275.68 276.<br>8054.72 1095.<br>985.51 884.9<br>189.5 189.<br>189.5 189.<br>258.14 268.<br>894.36 984.<br>(c) (u)                        | 7 182,67 1: 8 198,2 1: 9 105,0 1: 9 105,0 1: 9 105,0 1: 15 214,78 2 16 274,78 2 16 274,78 2 17 180,4 1: 18 282,44 2: 14 868,20 36 1962,5 16  | 12.89 225.21 (20/1/84) 14.5 175.1 (25/1/84) 15.5 114.7 (25/1/84) 15.90 576.84 (2/2/84) 15.91 1179.55 (12/5/84) 15.92 228.57 (6/1/84) 16.82 228.57 (6/1/84) 17.70 576.82 (2/4/84) 17.10 177.2 (1/2/84) 177.9 1778.82 (2/4/84) 177.9 1778.92 (2/4/84) 177.9 1778.92 (2/4/84) 177.9 1778.92 (2/4/84) 177.9 1778.92 (2/4/84)  | 108.96 (5/1/65) 98.1 (5/1/65) 98.4 (5/1/64) 241.83 (55/1/65) 241.83 (55/1/65) 261.83 (55/1/65) 108.45 (18/1/65) 108.45 (18/1/65) 108.16 (25/1/65) 108.1 (4/1/65) 28.61 (4/1/65) 28.61 (4/1/65) 712.23 (5/1/65)                              |
| ### Day's high 1257.87 (1158.83) fow 11 Industrial div. yield% ### Apr. Apr. Apr. Apr. Apr. Apr. Apr. Apr.   | (61/15) (5. 25. 25. 25. 25. 25. 25. 25. 25. 25. 2  | 5 Year ago (approx 4.85  4.85  4.85  4.85  4.85  4.85  4.85  4.85  54 Since Comitt's Low High Low Signature (approx 4.85)  54.85 194.94 5.32  54.85 194.94 6.48  54.85 194.94 (14.82)  1. Year ago (approx 4.80)  1.2.94  10.45  nd Falls  10.45  nd Falls  2.002 2.48  607 381 677  922 1.248 864  1988-84  Low   | Copenhagen SE (5/1/85) FRANCE CAC General (5/1/2/82) Ind Tendanca (59/12/85) Ind Tendanca (59/12/85) GERMANY FAZ-Aktien (51/12/86) Commerzbank (1/12/85) HONG KONG Hang Seng Bank(81/1/84) ITALY Sanca Comm Ital. (1977) JAPANeo Nikkel-Dow (18/6/48) Tokyo SE New (4/1/88) NETHERLANDS AMP-CBS Indust (1979) AMP-CBS Indust (1979) NORWAY Oslo SE (4/1/85) SINGAPORE Straits Times (1989) SOUTH AFRICA Gold (1856) Industrial (1855)  | (u) 185.4<br>187.90 187.<br>199.5 108.<br>345.12 546.<br>1912.4 1016.<br>1984.32 1085.<br>275.68 276.<br>8054.72 1095.<br>985.51 884.9<br>189.5 189.<br>189.5 189.<br>258.14 268.<br>894.36 984.<br>(c) (u)                        | 7 182,67 1: 8 198,2 1: 9 105,5 1: 9 105,5 1: 9 105,5 1: 15 214,78 2 16 274,78 2 17 182,6 1: 16 274,78 2 17 182,6 1: 18 282,44 2: 18 282,44 2: 18 282,44 2: 18 282,44 2:  | 125.89 225.21 (20/1/84)  125.1 (25/1/84)  125.1 (25/1/84)  125.1 (25/1/84)  125.1 (25/1/84)  125.1 (14.7 (25/1/84)  125.1 (14.7 (25/1/84)  125.1 (170.55 (12/5/84)  125.2 (22/64)  125.2 (22/64)  125.3 (1,850.19 (2/4/84)  125.3 (1,850.19 (2/4/84)  125.4 (1,2/84)  125.5 (1/2/84)  125.8 (1,2/84)  125.8 (1,2/84)  125.8 (1,2/84)  125.8 (1,2/84)  125.8 (1,2/84)  | 108.96 (6/1/65) 98.1 (5/1/65) 28.4 (3/1/64) 241.88 (25/1/65) 241.88 (25/1/65) 257.2 (25/1/65) 168.45 (18/1/65) 7965.18 (25/1/65) 100.1 (4/1/65) 88.5 (4/1/65) 28.61 (4/1/65) 712.23 (5/1/65) 712.23 (5/1/65) 714.5 (4/1/65)                 |
| ### Day's high 1257.87 (2158.83) fow 11 industrial div. yield% ### Apr. 5  | (61/15) (5. 85,826 — (61/15) (6. 85,826 — (61/15) (61/15) (61/15) (61/15) (7. 85 ) ( | 5 Year ago (approx 4.85  84 Since Comitt's Low High Low 54.85  84 Since Comitt's 5.82  84.85 194.94 5.82  86.85 194.94 5.82  86.85 194.96 (4.682)  172.94 10.46  10.46  10.46  10.46  10.46  10.46  10.46  10.46  10.46  10.46  10.46  10.46  10.46  10.46  10.46  10.46  10.46  10.46  10.46  | Copenhagen SE (5/1/85) FRANCE CAC General (5/1/2/82) Ind Tendanca (59/12/85) Ind Tendanca (59/12/85) GERMANY FAZ-Aktien (51/12/86) Commerzbank (1/12/85) HONG KONG Hang Seng Bank(51/17/84 ITALY Sanca Comm Ital. (1977) JAPANSS Mikkel-Dow (18/6/48) Tokyo SE New (4/1/88) NETHERLANDS ANP-CBS Indust (1978) NORWAY Onio SE (4/1/85) SINGAPORE Straits Times (1988) SOUTH AFRICA Gold (1856) Industrial (1888)  | (u) 185.4<br>187.90 187.<br>199.5 108.<br>345.12 546.<br>1912.4 1016.<br>1984.32 1085.<br>275.68 276.<br>8054.72 1095.<br>985.51 884.9<br>189.5 189.<br>189.5 189.<br>258.14 268.<br>894.36 984.<br>(c) (u)                        | 7 182,67 1<br>8 188,2 1<br>9 105,9 1<br>105,9 1 | 82,80 225.21 (20/1/84)  84.5 175.1 (25/1/84)  85.5 114.7 (25/1/84)  8.50 276.84 (2/2/84)  85.18 1176.35 (12/3/84)  85.18 1176.35 (12/3/84)  85.18 1176.35 (12/3/84)  85.18 1176.35 (12/3/84)  85.18 1276.35 (2/4/84)  87.18 1176.35 (12/3/84)  87.18 1276.35 (12/3/84)  87.18 128.95 (2/4/84)  87.18 176.5 (12/3/84)  87.18 176.5 (12/3/84)  87.18 176.5 (12/3/84)  87.18 176.5 (12/3/84)  87.18 176.5 (12/3/84)  87.18 176.5 (12/3/84)       | 108.96 (6/1/65) 98.1 (5/1/65) 28.4 (3/1/64) 241.88 (25/1/65) 241.88 (25/1/65) 257.2 (25/1/65) 168.45 (18/1/65) 7965.18 (25/1/65) 100.1 (4/1/65) 88.5 (4/1/65) 28.61 (4/1/65) 712.23 (5/1/65) 712.23 (5/1/65) 714.5 (4/1/65)                 |
| ## Day's high 1257.87 (2158.83) fow 11 industrial div. yield% ## Apr. Apr. Apr. Apr. Apr. Apr. Apr. Apr.   | (61/15) (5. 83,836 — (61/15) (6. 83,836 — (61/15) (61/15) (61/15) (7. 83,87 — (61/15)  | 5 Year ago (approx  4.85  84 Since Comitt's  Low High Low  64.85 194.94 5.82  86.85 194.94 5.82  86.85 194.95 (4.682)  17.85 (4.682)  17.85 (4.682)  17.85 (4.682)  17.85 (4.682)  17.85 (4.682)  17.85 (4.682)  17.85 (4.682)  17.85 (4.682)  17.85 (4.682)  17.85 (4.682)  17.85 (4.682)  17.85 (4.682)  17.85 (4.682)  17.85 (4.682)  18.85 (4.882)  18.85 (4.882)  19.85 (4.682)  19.85 (4.682)  19.85 (4.682)   | Copenhagen SE (5/1/85) FRANCE CAG General (5/1/2/85) Ind Yendamos (59/12 85) GERMANY FAZ-Aktien (51/12/86) Commerzbank (1/12/86) HONG KONG Hung Beng Bank(51/1/84) ITALY Banca Comm Ital. (1977) JAPAN** Nikkel-Dow (18/5/43) Tokyo SE New (4/1/88) NETHERLANDS ANP-GBS General (1978) ANP-GBS Indust (1978) NORWAY Oslo SE (4/1 88) SINGAPORE Straits Times (1988) SOUTH AFRICA Gold (1986) Industrial (1988) SPAIN Madrid SE (58/12/88) SWEDEN   | (u) 185,4<br>187,80 187,<br>198,8 198,6<br>198,8 198,6<br>1984,82 1085,<br>1884,75 1085,<br>188,5 182,<br>189,6 188,6<br>189,6 189,6<br>(c) (u) (u)<br>118,45 118,1<br>1565,6 1572,6   | 7 182,67 1: 8 198,2 1: 9 105,8 1: 10 105,8   | 12.89 225.21 (20/1/84)  14.5 175.1 (25/1/84)  15.5 114.7 (25/1/84)  15.90 276.34 (2/2/84)  15.12 1778.35 (12/5/84)  15.12 1778.35 (12/5/84)  16.82 228.57 (8/1/84)  16.82 228.57 (8/1/84)  16.82 228.57 (8/1/84)  17.9 (1/2/84)  17.10 276.31 (2/4/84)  17.10 17.2 (1/2/84)  17.10 17.2 (1/2/84)  17.10 18.81 (2/2/84)  17.10 18.81 (2/2/84)  17.10 1881.1 (2/2/8/84)   | 100.90 (5/1/65) 98.1 (5/1/65) 98.4 (5/1/64) 241.83 (55/1/65) 241.83 (55/1/65) 680.96 (4/15) 108.45 (18/1/65) 108.16 (25/1/65) 108.1 (4/1/65) 88.5 (4/1/65) 28.61 (4/1/65) 712.23 (5/1/65) 108.00 (60/12/65) 108.00 (60/12/65)               |
| ## Day's high 1257.87 (1158.83) fow 11 industrial div. yield%  | (61/15) (5. 15. 15. 15. 15. 15. 15. 15. 15. 15. 1  | 5 Year ago (approx 4.85  4.85  54 Since Comitt's Low High Low High Low 5.15  56.15 194.94 5.15  56.15 194.94 5.15  56.15 194.95 (4.65)  56.15 194.95 (4.65)  10.45  | Copenhagen SE (5/1/85) FRANCE CAC General (5/1/2/82) Ind Tendanca (56/12/85) GERMANY FAZ-Aktien (51/12/85) Commerzbank (1/12/85) HONG KONG Hang Seng Bank(51/17/84) ITALY Sanca Comm Ital. (1977) JAPANSS Mikkel-Dow (18/6/48) TOKYO SE New (4/1/88) NETHERLANDS ANP-CBS General (1978) ANP-CBS General (1978) NORWAY Onio SE (4/1/85) SINGAPORE Straits Times (1988) SPAIN Madrid SE (58/12/85) SWEDEN Jacobson & P. (1/1/85) SWIZDEN SWIZDEN (51/12/85) WORLD  | (u) 185.4<br>187.90 187.<br>198.5 178.<br>245.12 546.<br>1912.4 1016.<br>1984.32 1085.<br>275.68 276.<br>1084.72 1095.<br>1084.72 1095.<br>108.5 184.8<br>189.5 189.<br>129.4 120.<br>(c) (u) (u)<br>115.45 116.<br>1595.61 1572.4 | 7 182,67 1: 8 198,2 1: 9 105,0 1: 9 105,0 1: 10 105,0 1: 10 105,2 1: 16 274,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175,78 2 175   | 125.80 225.21 (20/1/84)  125.1 (25/1/84)  125.1 (25/1/84)  125.1 (25/1/84)  125.2 (27/84)  125.3 (12/2/84)  125.4 (12/2/84)  125.4 (12/2/84)  125.5 (12/2/84)  125.6 (12/2/84)  125.6 (12/2/84)  125.8 (12/2/84)  125.8 (12/2/84)  125.8 (12/2/84)  125.8 (12/2/84)  125.8 (12/2/84)  125.8 (12/2/84)  125.8 (12/2/84)  125.8 (12/2/84)  125.8 (12/2/84)  125.8 (12/2/84)  125.8 (12/2/84)  125.8 (12/2/84)  125.8 (12/2/84)  125.8 (12/2/84) | 108.96 (5/1,65)  98.1 (5/1,65)  29.4 (3/1,64)  241.88 (25/1,63)  727.8 (25/1,63)  168.45 (18/1,65)  168.45 (18/1,65)  108.16 (25/1,63)  100.1 (4/1,63)  88.5 (4/1,63)  712.23 (5/1,63)  712.33 (5/1,63)  108.90 (38/18/8)  108.90 (38/18/8) |
| ### Day's high 1207.87 (2156.83) fow 11 Industrial div. yield% ### Apr. Apr. Apr. Apr. Apr. Apr. Apr. Apr.   | (87/18) (8.818 — (8.818 — (8.818 — )  28.35 (1141,02)  Mar. 23 : Mar. 10  4.79 : 4.67  Apr. 31983  4 188.28 194.44 11 (16/18)  | 6 Year ago (approx  4,85  84 Since Comill's  Low High Low  54,85 194,94 5,19  54,165 (1916,83) (384,89  17,85 (1916,83) (4,68)  17,85 (1916,83) (16,62)  1,748 ago (approx  4,30  12,94  10,46  | Copenhagen SE (5/1/85) FRANCE FRANCE CAC General (51/12/82) Ind Tendanca (59/12 85) GERMANY FAZ-Aktien (51/12/85) Commerzbank (1/12/65) HONG KONG Hang Seng Bank(51/1/64) ITALY Banca Comm Ital. (1979) JAPAN** ITALY Banca Comm Ital. (1979) NICHALY SETTIMES (1988) SWEDEN Jacobson & P. (1/1/88) SWEDEN Jacobson & P. (1/1/88) SWITZERLAND SWITZERLAND SWITZERLAND SWITZERLAND Capital Intl. (1/1/70) | (u) 185,4 167,80 167, 108,8 108, 1912,4 1016, 1984,32 1085, 1884,72 1085, 189,5 1886,5 189,5 189, 268,14 268, (c) (u) 116,45 116, 1565,5 116,5 171,4   | 7 182,67 1: 8 188,2 1: 9 105,9 1: 10 105,9 1: 10 105,9 1: 11 29 548,61 548 10 1919,2 10: 15 274,78 2 9 11902,9 1: 5 678,24 3: 16 182,5 1: 16 282,44 2: 14 869,28 3: 14 869,28 3: 1718,86 1:57 187,7 1:8  | 12.89 225.21 (20/1/84)  14.5 175.1 (25/1/84)  15.5 114.7 (25/1/84)  15.90 276.34 (2/2/84)  15.12 1778.35 (12/5/84)  15.12 1778.35 (12/5/84)  16.82 228.57 (8/1/84)  16.82 228.57 (8/1/84)  16.82 228.57 (8/1/84)  17.9 (1/2/84)  17.10 276.31 (2/4/84)  17.10 17.2 (1/2/84)  17.10 17.2 (1/2/84)  17.10 18.81 (2/2/84)  17.10 18.81 (2/2/84)  17.10 1881.1 (2/2/8/84)   | 100.90 (5/1/65) 98.1 (5/1/65) 98.4 (5/1/64) 241.83 (55/1/65) 241.83 (55/1/65) 250.98 (4/15) 100.45 (10/1/85) 100.1 (4/1/65) 28.61 (4/1/65) 28.61 (4/1/65) 29.61 (4/1/65) 100.00 (80/12/65) 100.00 (80/12/65) 294.4 (4/1/65) 294.5 (5/1/65)  |

BUILDING

### **CONSTRUCTION CONTRACTS**

### Robert McAlpine £11m Scottish academy order

for the construction in Glasgow of the new Royal Scottish Academy of Music and Drama.

Academy of Music and Drama ing contract worth files, contract worth files, contract worth files, contract valued at £250,000 ing contra Academy of Music and Drama. 2105,000 A drining and grout-situated on a 10,200 sq metre site ing contract valued at £250,000 bounded by Cowcaddens Street, at Iver in Bucks has been Renfrew Street and Hope Street, awarded by Thyssen. The drill-the loadbearing brickwork and structural steel framed building driving a tunnel in unstable will contain four theatres, a tele-

built under a £1.1m development have been won by HEYWOOD GLAZING SYSTEMS, the patent glazing and curtain walling subsidiary of Heywood Williams Group. The major contract, worth £1.6m, is at the Manchester City Centre exhibition complex on the site of the old Central Station. It includes more than 7,000 sq metres of the old Central Station. It includes more than 7,000 sq metres of curtain walling and a further 3,000 sq metres of curtain walling frame as part of the building frame as part of the Union Life Assurance Society by John Mowlem & Co. Work is due to start soon with an £400,000, involves refurbishment of an existing office block at Liverpool. In Carlisle, the company has a city-centre redevelopment and for a work for J. Sainsbury, Leeds and Bradford Airport, Motorola, East Kilbride and a glass assembly project at Waverley Market, Princes Street, Edinburgh.

\*\*STENT FOUNDATIONS, part of Balfour Beatry, has secured over few work for J. Work in work in the Gifford Parks for the foreign managed for the Norwich and the foreign managed for the Norwich and the foreign managed for the Norwich John Mowlem & Co. Work is due to start soon with an eight-month construction period. The second contract, placed by London & Metropolitan Estates, has a value of £3.28m, and is for a high technology industrial development at Hatton Cross, adjacent to Heathrow Airport. Work involves construction of the Gifford Park Primary Combined School is under way. The school and the concrete treatments for £765,000, 4 housing improvements for the Greater London Council for £250,000. \*

\*\*WIMPENNY & CO, Hudders-field, has won five contracts totalling £2.2m. Largest is a £1m order from Plessey Proper. Leeds and the firm order from Plessey Proper. Largest is a £1m order from Plessey Proper. Leeds and the firm orders work for Estates. The school and the foreign from the structural repairs to the foreign from the firm order from Plessey Proper. At Silver Street Huddersfield, Wimpenny's will build nine factory and workshop and the concrete tr

STENT FOUNDATIONS, part of Balfour Beatty, has secured over £4m-worth of foundation work in the UK. Thailand and the Middle East. In Thailand its associate East. In Thailand its associate company Stent Seafco has been awarded two contracts totalling £1.5m. The major contract is for large diameter bored piles to the Landmark project, a hotel and office development. The piles of up to 1.2 metres diameter will be constructed down to depths of 55 metres.

The Middle East work includes two contracts in Dubai for

The contract is for construction Group company.

A contract worth more than of 600 mm and 750 mm diameter film has been won by SIR piles and is valued at around ROBERT MCALPINE AND SONS £400,000. At Surrey Docks the

Building work on the Gifford Park Primary Combined School is under way. The school and community annexe are part of a £900,000 project being carried out by JOHN WILLMOTT (BEDFORD), part of the Prufordshire-based John Willmott Group of Companies. The building is due to be faished at the end of the year.

### Gatwick North Terminal frame

meter will be constructed down to depths of 55 metres.

The Middle East work includes two contracts in Dubai for installing bored piles using direct mud circulation techniques. The first is piling for a multistorey car park for Dubal Municipality. Airport's North Terminal. About all Tayer. In Abu Dhabi. Stent has commenced piling for an office block in Juffair, Sahrain.

Cement Co headquarters and a commercial development for H.H. Sheikh Hamad bin Dhalid. A major piling contract has been obtained from Karime-Fysko JV for an office block in Juffair, Sahrain.

Terminal Frame of Gatwick for the supply and erection of the structural steel-frame of Gatwick with tree basic designs. The houses will initially be offered for purchase to tenants of Bourneville village Trust. It will consist of two-and three-bedroom units in the estate of the Bournville village Trust. It will consist of two-and three-bedroom units in the structural steel-frame of gatwick with tree basic designs. The houses will initially be offered for purchase to tenants of Bourneville village Trust. It will consist of two-and three-bedroom units in the site sat Rowbeath, Birmingham, on the estate of the Bournville village Trust. It will consist of two-and three-bedroom units in the site is at Rowbeath, Birmingham, on the estate of the Bournville village Trust. It will consist of two-and three-bedroom units in the site is at Rowbeath, Birmingham, on the estate of the Bournville village Trust. It will consis



### French Kier £11.7m batch

structural steel framed building will contain four theatres, a television studio, workshops, and practice rooms as well as a library, common rooms and restaurant facilities. There will be 15,000 sq metres of floor space. Emphasis will be on sound insulation and acoustics. Work starts at once for completion by the summer of 1987.

Orders worth more than £4m have been won by HEYWOOD GLAZING SYSTEMS, the patent glazing and grouting is to facilitate driving a tunnel in unstable ground.

\* Work has started on two McCARTHY & STONE warden schemes. Homebank House, a \$1.5m 59-home development, is being built in Bidston Road in Orton. Birkenhead, for completion in April 1985. And at Orton Township Centre, Peterborough, 46 homes are being built under a £1.1m development due for completion next February.

\* Anylick Lincolushire, for Anglian Water at £1m. Other work includes the fitting out of warehouses in Bedford for Texas Instruments for £765,000, and housing improvements for the Greater London Council for the Salary of Heywood Williams.

Council for structural repairs to 68 Airey houses at Matlock using the Shawconcrete system.

Ninety energy-saving houses are to be built for Bournville Village Trust by LOVELL CONSTRUCTION (MIDLAND) under a £2.Im design and build contract. The client is the St Laurence (BVT) Housing Association. Work has just started for completion in 58 weeks. The site is at Rowheath, Birmingham.

operational by the autur

t complies with the requirements of the Council of The Stock Exchange of the United Kingdom and the Republic of Ireland.



### Ireland £50,000,000

### 113 per cent. Bonds 1994

Issue price 100 per cent.

The following have agreed to subscribe or procure subscribers for the Bonds:—

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The Bonds, in the denomination of £5,000 each, have been admitted to the Official List of The Stock Exchange of the United Kingdom and the Republic of Ireland, subject only to the issue of the temporary global Bond. Interest is payable annually in arrears on 30th April, and the Republic of Ireland, subject only to the issue of the temporary global Bond. Interest is payable annually in arrears on 30th April, the first such payment being due on 30th April, 1985.

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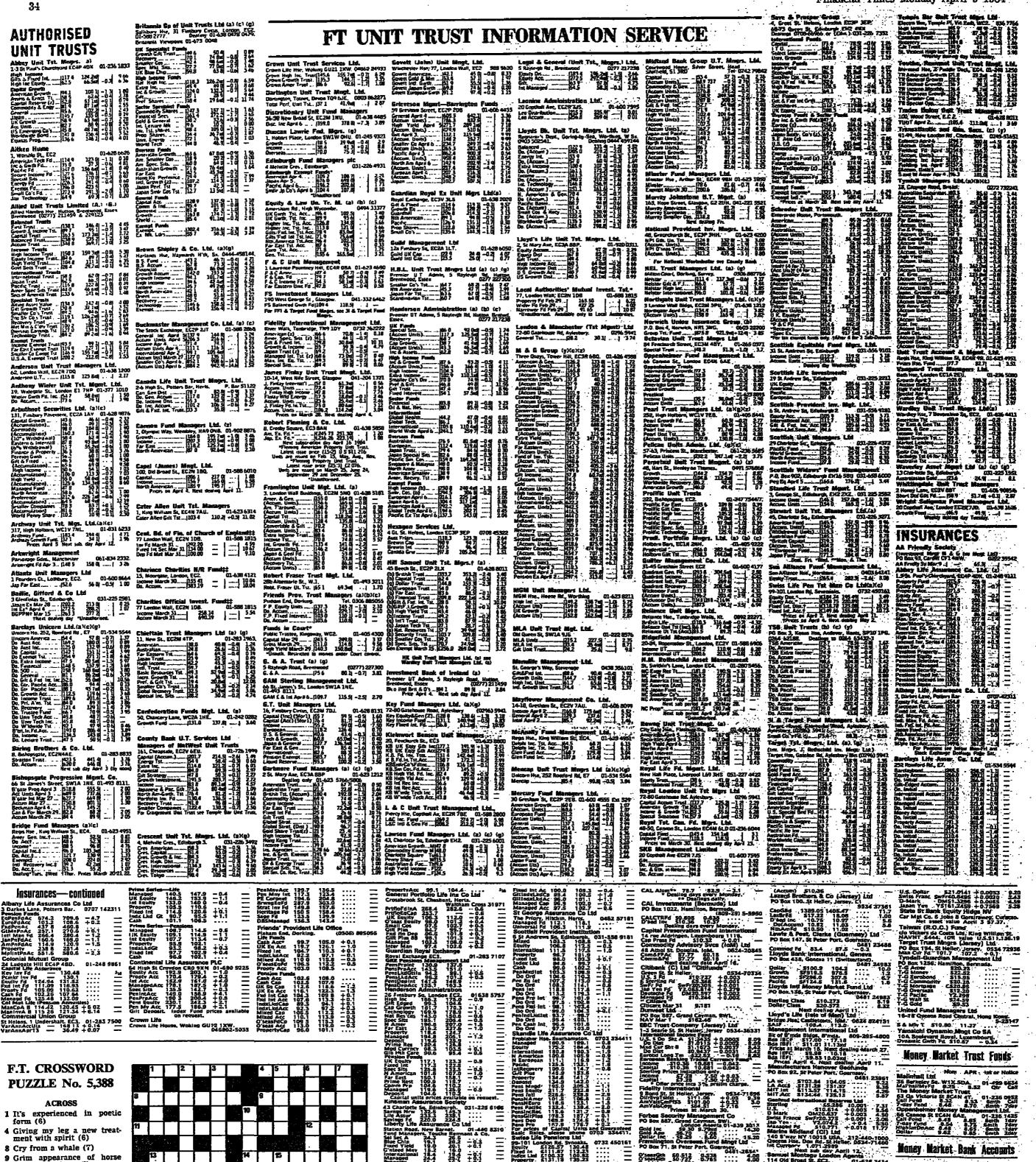
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A. H. Woolf



- without carriage (7) 11 Decided to be resolute (10)
- 12 Press a curtain material (4) 13 Sailor turned to crime and is seen in the dock (5)
- 14 Before embracing Anne put out feelers (8)
- 16 Used to be in a job (8)
- 18 Strip a fire-arm? (5)
- 20 He's a fantastic tennis player (4)
- 21 Describing one who was his own master? (4-6)
- 23 Not precious stones, but may be worn (7) 24 The current recession (3-4)
- 25 Firemen will use it, though it may ruin the hose (6)
- 26 He holds listeners in a kind of transport (6)

### DOWN 1 Sinuous slave dance (5)

- by a stationer (7)
- 3 Offering no chance to gain some odd change? (4, 5)
- 5 A minor grant (5)
- come to subvert (7)
- 10 Unexceptional combination 22 Field division that takes of extremes (3, 3, 3)
- 2 Some card-games supplied 13 One missile after another The solution to last Saturday's
  - 15 Record-holder (9)
- 17 His rise is postponed (3-4) 6 A subterfuge no one's wel- 19 Confusion that is restful for
- 7 Delay for a new drink (4, 21 What could be finer than a riddle? (5)

a change (7)

- years to train (5)
- produces great surprise prize puzzle will be published be prosent from the propert from the





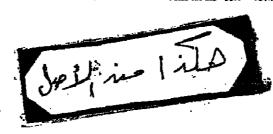




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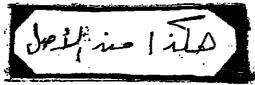


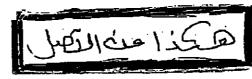
INSURANCE & OVERSEAS MANAGE

INSURANCE & OVERSEAS MANAGE

A STATE OF THE PROPERTY OF THE PROPE Financial Times Monday April 9 1984 | Hamber Pacific Fund Rignet, Ltd. | 2210, Co-matopic Center, Rorg Rosp | Fact Last April 6 | Ed. 33 | 428 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | 528 | INSURANCE & OVERSEAS MANAGED FUNDS Bishopsgätz Controdity Ser. Ltd.
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| on Sunday. April 15th appealing on behalf of St. Love's College for Training the Disabled for Commerce and Industry. Donations to St. Love's College, Freepost, EXETER   | AMERICANS BU  | ILDING INDUSTRY, DR.<br>MBER AND ROADS   | APERY & STORES—Cont. 4 E  | NGINEERING Continued Age. Age. 2301. A  | 22 Quere : Most 50   |
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Higsons Brew. 203 Hoti (Josi 25p. 870 to M Stm. £1 150 0.F.S. 775 | 13.2 | 7050d 1.0 | 3.8 | 5253 | 5411 | 9455d 2.4 | 9.2 | 5155 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 5165 | 51 Mar. Sept.Free State Dev 50c.
Jun. Dec.Fr.S Geduid 50c.
May Nov. Harmony 50c.
Movember Luvraine RD.
Jun. Dec.Pres. Brand 50c.
Jun. Dec.Pres. Stryn 50c.
Jun. Dec.Pres. Stryn 50c.
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Jun. Dec.Weitom 50c.
Jun. Dec.Weitom 50c.
Jun. Dec.W. Holdings 50c. OPTIONS 3-month call rates | 3-month Finance May | Afer Corp SA \$1.50.]
Jan | JulyAng. Am. Coal 50c...|
Jan | JulyAng. Am. Coal 50c...|
Jan | JulyAng. Am. Coal 50c...|
May | Oct.lang. Am 6old R1...
Feb. Aug. Anglos all 50c...|
Jan. | JulyCharter Cord. 2p...|
May | Dec. Corp. Codd Fleids ...
July | MayEast Rand Con. 10p. Oct. |
May | Dec. Corp. Codd Fleids ...
July | MayEast Rand Con. 10p. Oct. |
May | Oct. Codd Fleids ...
Aug. | Oct. Codd Fleids ...
Aug. | Feb. Middle Wit 25c...
Liday | NorManorco 38D1.40...
Mar. | Sept. Mew Wits 50c...
October | Rand Landon 15c....|
January | Rand Rand Prags. R1 |
July | Jan Ji Vasal Cons. Lc R1 ...
Sept. | May Ivogels 21gc...|
Sept. | May Ivogels 21gc...| 115 | 27.2 | 07.5 | 4.4 | 4.6 | 1557/28.2 | 01450 3.2 | 5.4 | 13.6 | 12.2 | 01100 2.0 | 4.9 | 13.5 | 12.2 | 01100 2.0 | 4.9 | 13.5 | 12.2 | 01100 2.0 | 4.9 | 13.9 | 13.1 | 01100 2.0 | 4.9 | 13.9 | 13.6 | 4.7 | 13.1 | 01100 2.0 | 1.7 | 6.4 | 6.6 | 12.3 | 12.5 | 8.2 | 12.5 | 8.2 | 12.5 | 12.5 | 8.2 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12. Brit Land 11 Cap Counties 16 Land Secs 25 MEPC 25 Peachey..... Samuel Props.... Sterling Guar. ... OIL AND GAS \_.24 \_ 58 ...12 ....60 | Col. | A selection of Options trailed is given on the Landon Stock Exchange Report page. "Recent Issues" and "Rights" Page 22 Central African This service is available to every Company dealt in on Stock Exchanges throughout the United Knudom for a fee of £700 per annum for each security. 

CHICAGO

FINANCIAL FUTURES

LONDON

### CURRENCIES, MONEY and CAPITAL MARKETS



### Den Danske Bank

# U.S. \$40,000,000

Subordinated Floating Rate Notes due 1990

In accordance with the provisions of the Notes, notice is hereby given that the rate of interest for the six months, 9th April, 1984 to 9th October, 1984 has been fixed at 111/2 per cent per annum and that the coupon amount payable on coupon No. 4 will be U.S. \$14,614-58.



The Sumitomo Bank, Limited



### U.S. \$350,000,000 New Zealand

FLOATING RATE CAPITAL NOTES **DUE 1987** 

For the six months 9th April, 1984 to 9th October, 1984. In accordance with the provisions of the Notes, notice is hereby given that the rate of interest has been fixed at 117 is per cent and that the interest payable on the relevant interest payment date, 9th October, 1984 against Coupon No 5 will be U.S. \$581.41.

### 3i Term Deposits

sits of £1,000-£50,000 accepted for fixed turms of 3-10 years. Inte

Today's Rates 9¾%-10¾%

|               | terms snown: |    |     |      |      |     |     |     |
|---------------|--------------|----|-----|------|------|-----|-----|-----|
| Terms (years) | 3            | 4  | 5   | 6    | 7    | 8   | 9   | 10  |
| Interest %    | 934          | 10 | 104 | 1012 | 10 % | 104 | 10% | 10¾ |

Deposits to and further information from the Treasuret Investors in Industry
Group pic, 9! Waterloo Road, London SEI 8XP (01-925 7822 Ext. 367).
INVESTORS
IN INDUSTRY
IN INDUSTRY

### **FOREIGN EXCHANGES**

# Interest rates support dollar

BY COLIN MILLHAM

The firmness of U.S. interest rates supported the dollar on the foreign exchanges last week, although dealers in Europe and the U.S. were somewhat at odds over the implications of high interest rates for the U.S.

Apart from the interest rate factor there was little else to stimulate the market during a stimulate the market during a fairly quiet week. Economic statistics were much as expected, with weekly U.S. MI money supply rising by \$2.2bn, and March unemployment remaining in line with the February rate of 7.8 per cent. This underlined the strong growth in the U.S. economy recently, since it compares with figures of 8 per cent in January and 8.2 per cent in December.

It was also regarded as a

EMS EUROPEAN CURRENCY UNIT RATES

45,6056 8,19839 2,23108 6,86459 2,51654

0.729109 2380.00

THE POUND SPOT AND FORWARD

1.8210-1.8320 4.201-4.231-76.15-76.75 13.70-13.76

OTHER CURRENCIES

Close
1.4290-1.4290
1.8275-1.8225
4.22\4.23\4
76.40-76.50
13.74\-13.75\-1.2280
1.2290-1.2240
3.74\-3.75\-190.50-191.90
14.95-214.95
214.95-214.95
217.-2319\-10.86-10.81
11.52-11.53
11.11\-11.12\-12.32\-13.21\-3.22\-26.30

+1.57 +0.58 -0.48 -0.15 -0.37 +0.47 -1.67

monetary stance by raising the discount rate. Thursday's increase in bank prime lending fundamental importance of the rates was also seen as a possible herald of a rise in the discount any moughts on this score had in a speech on Thursday.

Sterling appeared to be vulner-failure of the last Federal Open Market Committee meeting to make any move.

It is something of a most point as to how much mileage the dollar can gain out of the rising trend in U.S. interest rates however, and there were signs on Friday that the currency may find it hard to consolidate the gains of last week. A level of DM 2.63 is regarded as an important chear resistance level, important cheat resistance level, and after the prime rate news New York dealers pushed the dollar well above this level, but there was no follow through in possible sign the Federal Reserve would further tighten its

±1.5447 ±1.5425 ±1.0642 ±1.4052 ±1.4964

Note Rates

26,20-26,50 26,80-26,50 78,80-79,60 13,67-13,81 11,46-11,57 3,721<sub>2</sub>-3,761<sub>2</sub> 2295-2320 319-324

very large U.S. current account deficit, highlighted by the presi-dent of the German Bundesbank

month low, largely as a result of nervousness about the miners' nervousness about the miners' strike. The growing differential between UK and U.S. interest rates also seemed a depressing factor, but dealers suggested that London rates remain quite

attractive when compared with most other major centres, given the relatively good performance of the British economy of late The pound's decline against the dollar was therefore not reflected in similar falls against other currencies and sterling closed the week roughly unchanged against the D-mark.

THE CONTROL OF THE PROPERTY OF

£ in New York

Spot 1 | \$1,4300 4310 \$1,4165 4170 month | 0,86-0,28 dis | 0,26,0,28 dis months | 0,73-0,75 dis | 0,75-0,78 dis months | 3,20-3,28 dis | 3,28-3,52 dis

FORWARD RATES AGAINST STERLING

### BANK OF ENGLAND TREASURY BILL TENDER

|   | April 6         | March 30          | li  | April 6          | March 80                             |
|---|-----------------|-------------------|---|------------------|--------------------------------------|
| Bills on offer<br>Total of<br>applications<br>Total allocated<br>Minimum<br>accepted bid<br>Allotment at<br>minimum level | £100m<br>£97.91 | £555,25m<br>£100m | Top Accepted rate of discount. Average Average yield Amount on offer at next tender | 8.5820%<br>8.56% | 6,3830%<br>8,3820%<br>8,56%<br>£100m |

THE DOLLAR SPOT AND FORWARD

| Ireland† 1<br>Canada 1<br>Nethind, 2 | .4185-1.4310<br>.1620-1.1696 | 1.4290-1.4290<br>1.1660-1.1670 | One month         |        | months                                | P-I   |
|--------------------------------------|------------------------------|--------------------------------|-------------------|--------|---------------------------------------|-------|
| Ireland† 1<br>Canada 1<br>Nethind, 2 |                              | 4 4000 4 4000                  |                   | -2.74  | 0.73-0.78db                           | - 21  |
| Canada 1<br>Nethind, 2               | -                            | 1.100U-1.10A                   | 0.18-0.14c pm     |        | 0.57-0.49 pr                          |       |
| Nethind. 2                           | .2800-1.2820                 | 1.2800-1.2805                  | 0.06-0.04c pm     | 8.47   | 0.09-0.07                             |       |
|                                      | 9510-2-9700                  | 2.9670-2.9590                  | 1.16-1.11c per    | 4.61   | 3.47-3,42 pt                          | a 4.0 |
| Belgium 5                            | 3.50-63.80                   | 63.61-63.63                    | 2-3½c dis         | -0.61  | 9-11.dis                              |       |
|                                      | .6000-9.6625                 | 9,6250-9,6300                  |                   | 0.67   | 13 <u>-</u> 1 pm                      | 0.9   |
|                                      | 6145-2.6360                  | 2.6215-2.6225                  | 1.16-1.11pf pm    | E 20   | 3.38-3.33 m                           | n 6.1 |
|                                      | 33.00-134.00                 | 133.35-133.85                  | 75-225c dis       |        |                                       |       |
|                                      | 50.15-150.60                 | 150.25-150.35                  |                   |        | 275-700dis                            |       |
|                                      | 622-1630                     |                                | 60-69c dis        |        | 200-220 dis                           |       |
|                                      |                              | 1623-1624                      | 74-74/in dis      |        | 21 <sup>2</sup> -22 <sup>2</sup> - با |       |
|                                      | .5550-7.5825                 | 7.5625-7.5675                  | 1.55-1.85cre dis  |        | 4.20-4.50dis                          |       |
|                                      | .0475-8.1125                 | 8.0675-8.0725                  | 1.00-1.30c dis    |        | 4.90-E.50dls                          |       |
|                                      | .7825-7.8275                 | 7.7850-7.7900                  | 0.70-0.20cre pm   | C.69   | 1.15-0.65 pt                          | m 0.4 |
|                                      | 25.10-225.90                 | 225.25-225.35                  | 0.88-0.84y pm     | 4.58   | 2.60-2.55 pc                          | a 44  |
| Austria 1                            | 8.39-18.52                   | 18.43-18.44                    | 7,20-6.80gro prz  | 4.56   | 21 - 19 pa                            | 4.4   |
| Switz. 2                             | .1720-2.1855 .               | 2.1745-2.1755                  | 1.33-1.28c pm     | 7.20   | 3.83-3.78 pa                          | 7.4   |
| Bel                                  | cian rate is                 | for convertible                | francs, Financial |        |                                       |       |
|                                      |                              |                                | S. currency. Fo   |        |                                       | md    |
| discour                              | its apply to                 | the U.S. dolla                 | r and not to the  | indivi | dual cucran                           |       |

| URRENCY         | MOVE  | MENTS   | CURRE   | YCY   | RATE   | S  |
|-----------------|---|---|---|---|--|--|
| April 6         |   | Morgan<br>Guaranty  | April 6   | Bank<br>rate<br>%                                     |  | European<br>Currency<br>Unit   |
| terling         | 90.6<br>79.4<br>127.3<br>148.2<br>116.2<br>67.1 | Changes,<br>-11.1<br>+16.2<br>-2.5<br>+3-9<br>-11.0<br>-5.9<br>+8.0<br>+11.4<br>+5.0<br>-14.7 | Sterling  | 812<br>10.81<br>414<br>11<br>7<br>4<br>5<br>914<br>16 | 19.5955<br>56.8951<br>10.2141<br>2.78262<br>3.13834<br>8.56455<br>1725.83<br>238,859 | 0.595092<br>0.848318<br>1.08787<br>15,6854<br>45,6057<br>8,18839<br>8,23106<br>2,51654<br>6,85459<br>1380.00 |
| forgen Gueranty |   | -12.5<br>+15.5<br>everage   | Norwen Kr.,<br>Spanish Pta.,<br>Swedish Kr.,<br>Swiss Fr.,,;<br>Greek Dr'oh | 81 <sub>2</sub>                                       | 8,01647<br>159,156<br>8,25718<br>2,30606<br>110,285                                  | 6,42983<br>127,604<br>6,53215<br>1,84848<br>88,3947  |

Pound Strling U.S. Dollar

0,381 4,436

0,781

11.64

2,050 4,902

0.700 0,267 3,106

838,0 925,0

0,547

ONTH Eastern | TOOK | The | Took | To 63-26 90.53 90.57 Stm points of 100%.

90.53 90.57 Stm points of 100%.

90.50 90.52 Jense 98.99 90.03 98.97 89.67 CERT. DEPOSIT (IMM) Sim points of STERLING (IMM) Se per E APANESE YEN Y125m \$ per Y100

weekly change in world interest rates

| LONDON  | Apr. 6                    | change                     | NEW YORK   | Apr. 6                 | ومعطم                                 |
|---|---------------------------|----------------------------|--|------------------------|---------------------------------------|
| Base rates<br>7 day Interbank<br>5 mm interbank<br>Traesury Bill Tender<br>Band 1 Bills<br>Band 2 Bills | 64<br>83<br>8.3820<br>8.3 | +0.009<br>Unch'd<br>Unch'd | Prime rates<br>Federal funds<br>3 Mtt. Treesury Bills<br>6 Mtt. Treesury Bills<br>3 Mth. C D |                        | +14<br>+16<br>-0.01<br>-0.03<br>-0.05 |
| Band & Bills<br>& Mth., resaury Bills<br>1 Mth. Bank Bills<br>& Mth. Bank Bills<br>TOKYO                | 81g.                      | Unch'd                     | Lombard<br>One Min. Interbenk<br>Three month<br>PARIS  | 5,50<br>5,65<br>5,825  | Unch<br>+ 0.02<br>+ 0.05<br>Unch      |
| One month Bills<br>Three month Bills<br>BRUSSELS  |                           |                            | Three month  | 12,5625                | Unch<br>O.SE                          |
| One month<br>Three month<br>AMSTERDAM!  | 1178                      |                            | Three month  | 17/6<br>17/6           | -ig                                   |
| One month<br>Three month  | 6 <u>4</u>                | +4                         | One month Three month  | 181 <sub>8</sub><br>13 | -16                                   |

1128

3,568 1,359

1,823

2,515 5,530

Italian Lira

618.7 7200.

1,828 1,756

1.586 0.588

0.488

76,45 55,52

20.40 257.4

66.33 344 24.58

# Trade Development Bank Holding S.A. Luxembourg

NOTICE IS HEREBY GIVEN that the Annual General Meeting of Shareholders of Trade Development Bank Holding S.A. (TDB Holding) will be held at the registered office of the Company, 13, Boulevard de la Foire, Luxembourg at 2:30 p.m. on 8th May, 1984 for the purpose of considering and voting on the following matters:

1. Approval of the Chairman's Statement.

2. Approval of the Statutory Auditors' report and the unconsolidated financial statements of the Com-

pany for the year ended 31st December, 1983.

3. Discharge of the Directors and of the Statutory Auditors concerning their duties relative to the year ended 31st December, 1983. 4. Distribution of a dividend of US\$ 0.75 per share and the carrying forward of the balance of the profit. 5. Election of the Board of Directors for 1984. Standing for election: Messrs. Edmond J. Safra, François

Lugeon, George B. Balamut, Jean Hoss, Roger Junod, C. G. Rodney Leach, John A. Waage and Walter H. Weiner.

6. Election of the Statutory Auditors for 1984. 7. Approval of the consolidated financial statements of the Company for the year ended 31st December,

8. Amendment of the corporate name, and consequential amendment of Article One of the Articles of Incorporation.

By Order of the Board, Edmond J. Safra Chairman

### NOTES:

Subject to the relevant resolution being approved, the dividend will be payable on 1st June, 1984: (i) in respect of registered shares to shareholders on the register as at 1st May, 1984 and (ii) in respect of bearer shares against surrender of Coupon No. 15 to any of the Paying Agents listed below.

Any shareholder whose shares are in bearer form and who

wishes to attend the Annual General Meeting in person must produce a depositary receipt or present his share certificates to gain admission. If he wishes to be represented at the meeting, he must lodge a proxy duly completed together with a depositary receipt at the registered office of TDB Holding at 13, Boulevard de la Foire, Luxembourg, not later than 7th May, 1984 at 5:00 p.m. The shareholder may obtain the depositary receipt and, if required, the form of proxy from any of the banks listed below by lodging his share certificates at their office or by arranging for the bank by whom his certificates are held to notify any of the banks

listed that shares are so held.

Any shareholder whose shares are registered will receive a notice of the Annual General Meeting at his address on the register together with a form of proxy for use at the meeting. The proxy should be lodged at TDB Holding's office in accordance The remittance of the form of proxy will not preclude a

eholder from attending in person and voting at the meeting it The resolutions concerning Items 1 to 7 of the Agenda may be passed by a simple majority provided that no single share-holder or proxy may cast votes in respect of more than one fifth of the issued share capital or more than two fifths of all shares repre-

sented at the meeting.

The resolution concerning Item 8 of the Agenda requires a majority of at least two thirds of the votes of the shareholders present or represented, provided there is a quorum of at least fifty percent of issued share capital. There is no limitation as to the number of shares for which any shareholder or proxy may cast

Copies of this notice and of the Annual Report, including the financial statements of TDB Holding for the year ended 31st December, 1985, may be obtained at its registered office, and from any of the banks at the following addresses:

\*Manufacturers Hanover Limited, 8 Princes Street, London EC2P 2EN. \*Manufacturers Hanover Limited, 8 Princes Street, London EC2P 2EN.

\*Banque Internationale 3 Luxembourg S.A., 2, Boulevard Royal, Luxembourg.

\*Manufacturers Hanover Bank Belgium, 13, Rue de Ligne, 1000 Brussels.

\*Manufacturers Hanover Banque Nordique, 20, Rue de la Ville-L'Evéque, 75008 Paris.

\*Manufacturers Hanover Trust Company, 40 Wall Street, New York, N.Y. 10015.

\*Manufacturers Hanover Trust Company, Bockenheimer Landstr. 51/53, Frankfurt.

\*Republic National Bank of New York; 452 Fifth Avenue, New York, N.Y.10018.

Trade Development Bank, 25, Corso S. Gottardo, 6830 Chiasso, 1.

\*Trade Development Bank, 30 Monument Street, London EC3R 8LH.

Trade Development Bank (France) S.A. 20 Place Vendone 75001 Paris. Trade Development Bank (France) S.A., 20, Place Vendome, 75001 Paris. \*Trade Development Bank (Luxembourg) S.A., 34, Avenue de la Porte-Neuve, Luxembourg Trade Development Bank, 2, Place du Lac, 1204 Geneva.

\*Paying Agent of TDB Holding.

EURO-CURRENCY INTEREST RATES (Market closing rates)

11,525 8,070

10. 3,706

6,305 15.08

322,0 225,3

76,17

176.1 481,2

3.110 2.175

2,698 1,

1.701 4.068

### MONEY MARKETS

**EXCHANGE CROSS RATES** 

Apr. 6

Deutschemark apanese Yen 1,000

Yench Franc 10 Wiss Franc

Tutch Guilder Italian Lira 1 000

Canadian Dollar Balgian Franc 100

Pound Sterling

# Nervousness, but no panic

A degree of nervousness was evident on the London money market last week. There was no sign of panic, but the mood was illustrated by a widening of the yield curve, as demand increased for short term market instruments, while interest rates on longer term money and paper rose. Day-to-day credit shortages were high, running in the region of £600m a day, and on each day the stand of the standy rise in U.S. interest stands of the rates, in contrast to the recent founds overnight rate, pandly while rates, in contrast to the recent founds overnight rate, pandly while rates, in contrast to the recent founds overnight rate, pandly while the possible implications of the miners' strike added to take to give smough below to the bearish mood.

The rise of 1 per cent to 12 per cent to 12 per cent to 12 per cent to 12 per cent in U.S. basks' prime in the last Federal Open Market summing the rate money as given the upward move affirmed the earlier temporary decision to allow Federal funds on the steady rise in U.S. interest stantial pressure on the Federal target level of 10 per cent.

for short term market instru-ments, while interest rates on longer term money and paper rose. Day-to-day credit shortages were high, running in the region of £500m a day, and on each day the Bank of England offered early assistance. Conditions

MONEY RATES

# UK clearing banks' base lending rate 8j-8j per cent (since March 15 and 16)

where somewhat distorted by the end of the financial year considerations for two of the largest discount houses. The houses like to run large books at such times, but the general trend in the market was to sell as many three-mouth (band 4) bills to the authorities as possible.

bills to the authorities as possible.
This has the benefit of not rolling forward shortages through repurchase agreements, as was so often the case last month. The unwinding of these agreements was the major factor between London and New York interest rates caused considerinterest rates caused considerable concern in the market and resulted in the Bank of England

### FT LONDON INTERBANK FIXING

LONDON INTERBANK FIXING (11,00 a.m. April 6) 3 months 1 bid 11 1/8

the Room rates are the arithmetic cases, rounded to the nearest one-sisteenth, of the bid end offered rates for \$10m quited by the market to five reference banks at \$1 e.m. each working day. The banks are Hational Westmioster Benk, Bank of Tokyo, Dautsche Bank, Banque Nationale de Paris and Morgan Guaranty Trast.

5,50-5,65 5,6-5,7 6,65-5,80 5,75-5,90 5,85-6,00

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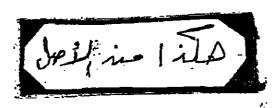
### LONDON MONEY RATES Discount Houses Deposit and Bill Rates

Paris

18

| 1984   | of deposit                                      |  | deposits   | Deposits '   | Deposits  | (Buy)                         | (Self)            | (Buy)                                   | Bank<br>(Sain | Trace   |
|--|---|--|--|--|---|-------------------------------|-------------------|---|---------------|---------|
| Overnight 2 days notice 7 days or 7 day notice One months Two months Three months Nine months Nine months One year | 81; 81;<br>84, 61;<br>87; 81;<br>9 81;<br>9 81; | 5-85a<br>84-85a<br>85a-85a<br>87a-84a<br>97a-96a<br>94-96a<br>94-96a | 74-814<br>819-858<br>85-914<br>854<br>804<br>818<br>918<br>918 | 7-31 <sub>8</sub><br>32-85 <sub>8</sub><br>33-81 <sub>8</sub><br>34-81 <sub>8</sub><br>9 <sub>16</sub> | 5-85 <sub>9</sub><br>8-83 <sub>6</sub><br>61 <sub>2</sub><br>81 <sub>2</sub> -83 <sub>6</sub> | 63 <sub>2</sub><br>844<br>845 | 81g<br>84g<br>84g | 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |               | 1-14454 |
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| One month  | 914-B   | - <b>-</b>   | : 814 19   | 55-10.65   | <del>1, 98</del> 9  |                               | Pina Pata         | r (> hin                                | 7. Ta         |         |

|  | bonds                                 | Deposits                                   | Deposits                           | Deposits                              | Deposits                                | Deposits                                | NEW YORK (4 pm)   |          |
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# Coil Coai

The merits of coil coating—the process which enables steel or aluminium strip to be bought already painted—are becoming more widely known, and expansion, already rapid, is accelerating. With so much at stake, the industry's leaders, particularly the paint makers, are engaged in a major battle for market shares

ing as the industry has re-organised its marketing, and this is likely to add further to present growth. Coil coaters and paint makers are now making sales approaches to pension funds, architects, building specifiers, and manufacturing in-dustry to spread their gospel directly to increasingly more decision-makers.

That gospel is that it pays to use preceded steel and alu-minium; for buildings and for making things, "Pre-coated," in fact, means "pre-finished."

strip then use it to make an increasing multiplicity of items. Chief among them are profiled claddings for the walls and roofs of buildings, but other familiar products made from pre-finished steel or aluminium fact, means "pre-finished."

The process enables steel or aluminium strip to be bought already painted. Such have been the advances in metallurgy and paint technology that the strip can be formed, bent, drawn seamed or put through most other industrial practices without the coating being damaged. The industry gets its name from the fact that the steel or aluminium strip leaves the mills. pre-finished steel or aluminium include non-stick pots and pans, refrigerators, microwave ovens, venetian blinds, caravans, elecstick. The coatings are usually pin head covers for babies' nappies, drainpipes, guttering,

aluminium strip leaves the mills where it is made rolled up into coils. Coil coaters then unroll the coils, paint them by run-ning them down a highly automated production line at con-siderable speed, and then roll them up again to be sold to manufacturers as coated coils The technology is complex,

requiring considerable skill in pre-treatment of the metal to

VIGOROUS GROWTH remains the main feature of the coil coating industry in Europe. Despite recession, sales in this high technology sector continue to burgeon and there are now signs of them accelerating with economic recovery.

Knowledge of what coil coating actually is has been spreading as the industry has recognised its marketing, and this is likely to add further to present growth. Coil coaters and

The people who buy coated

gas fires and garage doors.

The chief advantage offered to manufacturing industry is

that paint shops are no longer needed at the end of produc-tion lines. Not only is this cheaper because it means em-ploying few people, but there are usually considerable savings on energy, health and safety

precautions, and effluent and emission control.

On top of that, people who

have switched have reported figures for total sales of coated intangible benefits from being more easily able to keep factories clean.

tories clean.
Such savings have undoubtedly helped coil coating to continue to grow throughout the recession. Indeed, recession inspired many manufacturers to look for cheaper, more efficient ways of making their goods and was therefore probably more of a help than a hindrance.

The gospel spreads

SURVEY BY IAN HAMILTON FAZEY

manufacturers might have con-tinued to say: "Why change

when we're doing all right as we are?"

The European industry's statistics for 1983 are still being collated but are expected to show sharp rises in several sectors as economic recovery found a firmer foothold during the year. One very encouraging general sign was a 102 per cent increase in stockholding of coated coils in

stockholding of coated coils in the first quarter alone. The new

level was maintained in the

Since stockholding grew by only 3.2 per cent for coated steel coils in the whole of 1982, and fell by 12 per cent in the

much smaller aluminium sector, the early returns for 1983 have

to represent a considerable in-

crease in general confidence.

second quarter.

ngures for total sales of coated coils, which showed year-on-year gains of 16.3 per cent in the first quarter of 1963 to accelerate to a figure of 20.4 per cent in the second, a growth which has pleasantly surprised even the optimists who now run the Brussels bandguarters of the European Coil Coating Associa-

tion.
Even 1982, the last for which full figures are available and

the worst year of the recession

for the industry, showed good growth for steel.

Aluminium, which suffered from world price rises that forced up the cost of aluminium

coils by 50 per cent, struggled to only 1.5 per cent growth overall, but the wonder there is that its use grew at all, which must be another sort of

tribute to coil coating's benefits.

Steel, however, put on 10.1 per cent across Europe, and British Steel, Europe's biggest coil coater, did as well as any-

one. Sales of coated cous to me building sector were up 7.3 per cent and to industry they rose by a staggering 16 per cent. Exports outside Europe went up

by 15 per cent.

And this was a bad year, as

can be seen when the growth of the use of coated coil is looked at on a five-year basis

Sales of coated coils to the

from 1978 to 1982. This analysis shows the building sector's rate of usage up by 75 per cent, industry's up by 69 per cent, and stockholding (an important commercial activity by which several companies make substantial profits) up 79 per cent. Exports, which peaked in 1979, and then dipped in 1980. climbed back steadily to 1978

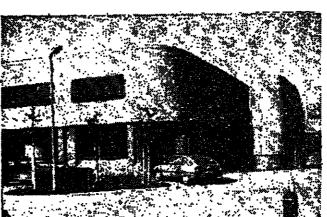
for coated aluminium, although the greater expense of the metal leads to lower sales volumes and slower growth. Never the less, the rate of its use in building products was up 32 per cent in 1982 compared with 1978, with industry taking 54 per cent more. Ex-ports, however, often involving large bullding contracts in the Middle East were up 60 per

But although Europe's main coil coaters compete with each other in export markets outside their home continent, there is relatively little international competition within Europe itself. This is inevitable when the biggest coaters are steelmakers, each of them firmly rooted in a national domestic market.

Competition is possible, theoretically, on finished goods such as coated strip but can only be described as marginal when looked at dispassionately in marketing terms. A nationalised market leader, for example, might have a market share in

excess of 75 per cent.
The true competition in coil coating markets is among paint

surope's newest coil coater, Mr Brian Proctor, at his Cladcolour line at Newport, the company started operations last week. Will it be a thorn in the side of the coated steel from the Dutch company Hunter Douglas proves



which has bought technically ad-France and Germany and is on the lookout for more—leads in terms of share of the coil coating market.

But ICI, which has also bought technically advanced subsidiaries in Britain, France and Germany, is fighting hard to catch up and is likely to bring an increasing amount of unique experience into the technology from its Australian subsidiary, Dulux.

Meanwhile, Courtauld's subsidiary, International Paint, is working hard to make an impact in coil coating and, like ICI, is developing new coating it hopes will expand the total market. International has already made its mark by developing the paint suppliers and here things are in mond refrigerators from coil a state of considerable flux. The coated British Steel.

European paint companies have looked at the British market and decided that they must carry the fight beyond their traditional boundaries. Thus Sigma Coating, the paints subsidiary of the Belgium-based Petrofina group, has started a push in Britain in coil coating.

The French paint company Ripolin-Duco is also making a determined assault on the British coil coatings market. It intends to distribute through Hadfields Industrial Coatings, part of the privately-owned Kalon group. Ripolin-Duco has a licence for the U.S.'s leading PVC coating system, though it will face an uphill battle to get orders from British Steel, which developed its own formulation for such coatings and is lation for such coatings and is

unlikely to change. As the European and world economies recover from reces-

### CONTENTS **British Steel** Cladeolour Custom Coil Alcan and Euramax Glossary International Paints The paint makers Crown Paints **European Coil Coaters** Association

The international scene VI paintmakers are looking to high-technology fluorocarbon paints as the most important factor for fast growth. The building industry, which uses more than 50 per cent of coil

coated products, holds the key

to how this market is going to

Fluorocarbon coatings are practically indestructible and need be applied only thinly enabling coil coating lines to be run faster and more efficiently. Durability of colours is another asset, especially in prestigious buildings.

That is why people who invest in such buildings, such as pension fund managers, are prime targets for the industry's marketeers, while exciting design possibilities are being

There is no sign that growth

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the one or two coat paint systems in current

In Holland the wide line offers painted coil up

'Decorcoat' line paints stripes and patterns

use, with one side or two side coated

to 2540 mm wide, and the speciality

to individual specifications.

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Both plants have embossing, slitting

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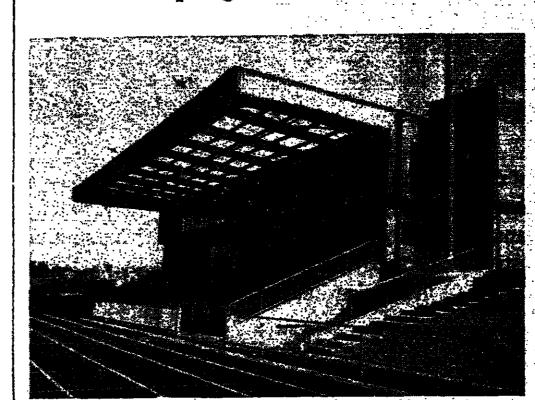
and fabrication operations, offering coil

European coil coater, for both large and

Versatility, flexibility and customer service

EURAMAY

On this page and the next, a look at the fortunes of five coaters competing for a share of a fast-growing market



### British Steel

# Europe's frontrunner

BRITISH STEEL is expecting outside Europe. its coil coating busines to grow by at least 10 per cent in 1984 to push output past 200,000 tonnes of coated metal.

Last year's figures missed that andmark by about 10,000 connes, but since that represented full capacity on two-shift working, anything over it is a

significant development.

With capacity available for about 300,000 tonnes a year, Britsh Steel can claim to be Europe's biggest coil coater already. However, even this is not expected to be enough: £25m is to be spent at Shotton, in North Wales, to open another line in 1986 that will expand the range of products and applications even further.

These, of course, may well be

These, of course, may well be yet more signs that the UK economy is really beginning to recover from recession, but British Steel's growing sales of coated coils also reflect con-siderable export successes—up by more than 20 per cent to account for two-fifths of out-

It is, however, in the home For British Steel's approach from the outset was market

oriented, asking what the products were worth to customers rather than grossing up added value on raw material costs and then superimposing a profit

The latter approach was favoured by steelmakers in Germany, France and Sweden, betraying the production offen-tation typical of the industry. Now, says Mr Peter Burling, British Steel's commercial manager for special products "the Continentals have at last realised that they have missed this trick and are trying to raise their home prices."

Why these price differentials each other on prices for exports ment of colour and bexture.

company has realised that steel import quotas do not apply to finished goods and is undercut-ting Brush Steel in Britain with

ong Bresh Steel in Broadn with 20 per cent lower prices.

And at British Steel Itself there is a little sensitivity about Cladcolour starting up just down the road from Mr. Burling's office in Llanwern, Not a single tonne is likely to be

ceded, which could well mean flexibility on prices.

However, the U.S.-owned H. H. Robertson has co-existed with British Steel for years, buying its coils direct from Shotton to coat at its Ellesmere Port factory. Robertson works on a but total design concept, coating as of steel specifically for each build-coning job, from the Centre Court—up roof at Wimbledon to complite to cated flooring systems for large What British Steel can boast

is more know-how than anyone else. Britain's steel industry has that it does so with products that in some cases cost 20 per cent more in home markets than their counterparts in Europe.

There is no one in Europe with that length of experience." Mr Burling says.

This factor could be very this how will be their counterparts in Europe.

This factor could be very this how will be the British licence for their counterparts in Europe. important long term, especially with people making large investment decisions in buildings who want to be certain of availability of service from the supplier that will last as long as the building—which could be 50 years.

### Promotion .

It is these people and their advisers to whom British Steel is now promoting hard. In January the corporation published an impressive cladding manual for a phitects and specifiers, following up with audiovisual presentations around the

country.

The manual is, quite literally, weighty, tipping the scales at nearly 5lb. One reason for this why these price differentials have not mattered from a competitive point of view is that a virtual monopoly in its home market—would-be competitors put British Steel's share at 78 which are far superior to colour put British Steel's share at 78 which are far superior to colour per cent—though they all fight cards in allowing true assess-

Nevertheless, British Steel with technical data sheets and guides to good architectural one willing to work hard enough to break in. There is some evidence, indeed, that one Belgian company has realised that steel. are enough to goad even the most placed architect into artis-

> The corporation is employing updating the manual several times a year.

Mr Burling is also working hard at other markets, such as domestic appliances, office fur-niture, steel drums, and car and

niture, steel drums, ambuilding components.

Here, British Steel runs a product development centre at Shorton which studies probusing prefinished steel. "If the potential volume is big enough we will offer this as a service to anyone." Mr Burling says. This includes consultancy by engineers and technical staff. and even the building of pro-

What the corporation has decided not to do is produce zincrometal, a zinc-rich corroducer opts to use at Nissan's recent decision to use it in Japan may, however, be an innen-here for when the company starts UK production.

What British Steet will be

producing is Galvalume and it is for this that the new line is being built at Shotton. This is steel coated with a 45:55 mix-ture of aluminium and zinc which has four times the corrosion resistance of gal-vanised steel and greater

strength at the surface. Mr Burling says: "This will given even better corrosion protection to buildings and will perform better in heat, such as in car exhausts. It will also be in car exhausts. If wair also be more flexible, so bend radii will be tighter. We should also be able to apply thinner coatings."

The prospects look good and are getting better for what is, for British Steel, a rare success story, even if a few competitors are now beginning to nibble: around the feet of the giant.

Cladcolour

# Buyer turned supplier

BRITAIN'S LATEST costes: started operations last week in a disused strip mill in British Steel's White-

The £1.6m investme tubily to increase his worl

The irony is that Clad-colour's factory is an island surrounded by British Steel land within a British Steel perimeter fence. Mr Proctor did not tell the corporation exactly what he intended to do with the old mill but he did make sure that the sale agreement gave him per-minent rights of access.

### **Upportunity**

plier with no pitch to quee at British Steel. This has provided just the opportunity the Belgian paintmaker sub sidiary of Petrofins, Signs Coatings, was looking for to get a tochold in Britain.

Sigma's Mr John Conningon says that the con will be supplying Cladeolour with at least 70 per cent of its coatings. With any paint supplier's technical back-up critical to guaranteeing coll without such support.

Mr Proctor's marketing strategy will not be to play David to British Steel's Goliath but to find a small, complementary niche. "Their minimum order is 10 tonnes." he says. "We shall go down as low as two. Our budget will be 7,000 tonnes in our first year, rising to 25,000 in

"We haven't got the espacity to be a real nuisance to them. But there has only been one general supplier all the time I've been in the industry since 1965. The market can take some flexibility. I'm not going to undercut British Steel: service, availability and reliability have always been more important in this business than price." Mr Proctor says. The final front, of course, is the very staff Cladeolour will be coating—British Steel.

### Custom Coil Coaters

# Step-by-step approach pays off

SUCH IS the impact of Custom Coll Ceaters on its markets that the company, which operates from a small factory in the heart of the English Black Country, has seen turnover grew by an annual 20 per cent for each of the past three years.

Profitability has been main-tained throughout the reces-sion and the best testament to the company's confidence is its recent investment of \$250,000 in a new coil coating line.

According to Mr Don Large, the managing director: "Our philosophy is to cover as many markets as we can. We don't sell on price, but delivery, service and quality. We can fill new orders in only four weeks and that has seen us supply small domestic appliances to Australia faster than their home producers."

As its name suggests, the company coats coll for specific requirements. It operates on narrower widths, making very many small items that most people take for granted, such as clock faces, ear instrument dials, film cassettes for

and holloware and suspended ceilings. There are architec-tural products for the build-ing industry and small domes-tic appliances which need specialised heat resistant cont-

"With some of these products we seem to have cornered the UK market," says Mr Large, who is widely known in the automotive ludustry for having previously managed Jensen Cars — in Custom Coil Coaters' home town of West Browwick—and the Linwood Plant for Chrysler in Scotland.

The company is part of the Wolverhampton engineering group, Frederick Cooper, and contributes about 40 per cent . of the group's £20m turnover. Cooper is probably best known for making horseshoe nails, which it exports all over the world.

Custem Coil is also strong on export, with 35 per cent of

Polaroid cameras, and bottle we were doing fairly standard work, such as coating narrow steip for specialised uses. strip for specialised uses. Then we started playing about

Then we started playing about with bakewire."
That "playing about"—the company sets aside one and half shifts per month to use its coal coating lines for R & D—has creatually led to the development of some impressive kitchenware, coated with Du Pont non-atick fusibles on the inside and Crown Paints heat-resistant, brighty chloured coefficies on brightly coloured coatings on the other.

### Hallmark

Custom Coff has developed the coating process and with Du Pont and Crown the coatings themselves—so that the kitchenware can be drawn, stamped and bent from the coated coil without the prefinished surfaces being damaged or becoming un-Stuck.

gramme at the company is concerned with conting zine strip. The paint is electri-

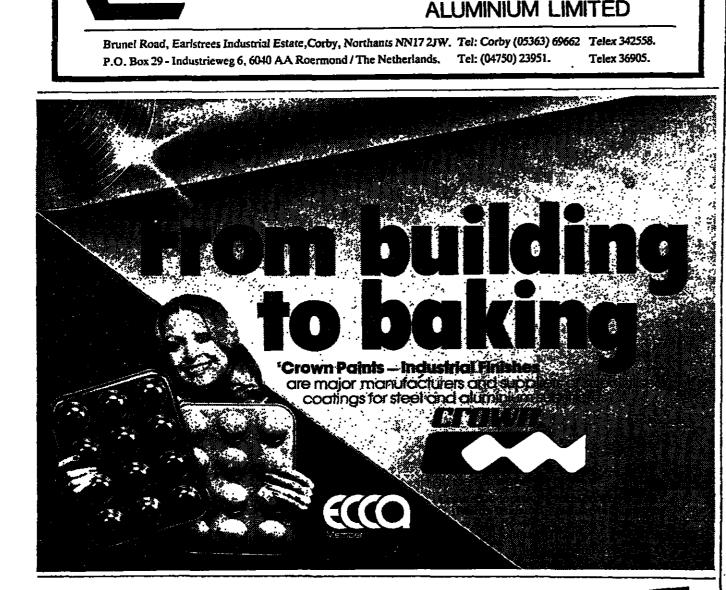
produced for making batteries if Custom Coll succeeds. The development is being done

Mr Large says: "There are still problems to overcome but we have been through this we have been through this mill with every new thing we ever did. It took three or four years to get the bakeware right but it was well

A step by step approach has also been the hallmark of expansion abroad. The com-pany started selling in France and Germany, secured its posi-tion, and then expanded elso-where in Europe before ven-turing further afield, leaving the U.S. market until last.

The management's only fear is of success forcing too-rapid growth. There are only 65 employees in the highly capital intensive business and the management team is basically Mr Large and his technical and sales directors. He says: "We can take deci-sions and respond quickly.

One of the problems would be become tee big."



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# Alcan and Euramax fight it out

A NEW confidence has emerged among British Alcan's coil coaters in Birmingham. A year Part of this is due to the sucago they were smarting at having lost their biggest customer, Euramax—which had just opened its own coll coating line in Corby—and not a little worried.

Fart of this is due to the success of Alcan's new coating, Duralcote 80, a fluorocarbon-based paint which it claims has superior resistance to damage, abrasion, vandalism, stains. ago they were smarting at hav-

tant. Alcan's man in charge, tant. Alcan's man in charge, Mr Peter Gibbs, has just been promoted to a works directorship in Scotland and the company is about to make a substantial investment in its ancient coil coating line, which is now making profits.

Shearing, says that this will found the same time the spread duction figures, claiming these would help Alcan but says that used to be almost exclusively in it had coated its first 1,000 buildings and caravans, The tonnes by the end of last only 30 per cent of volume this only 30 per cent of volume this year—compared with half in

One of the reasons why Euramax opted to become a coater was an understandable fear that the long-unprofitable Alcan line would be closed down. Euramax needed to safeguard its suppliers of coated aluminium for Alcan's line has recently phiers of coated autominium for its caravan business but saw a chance too of picking up the whole British market with a new, efficient line if Alcan dropped out

Marketing director Mr Bob Horton says that the investment decision was based on the worst

It has also changed its chier executive: Mr Roger Walters became managing director in August after previously leaving his last job as head of Alcan's 5140,000 being spent on the line immediately and more promised immediately and more promised immediately and more promised into a wide variety of miscon. Mr Walters says: "We have more than matched our predictions. If our competitors want to think we are not making progress, that suits us fine."

Alcan's managers are having been has seen a ton immediately and more promised into updated testing equipment and computerised laboratory facilities that will improve catable into updated testing equipment and computerised laboratory facilities that will improve catable into updated testing equipment and computerised laboratory facilities that will improve catable into updated testing equipment and computerised laboratory facilities that will improve catable into updated testing equipment and computerised laboratory facilities that will improve catable into updated testing equipment and computerised laboratory facilities that will improve catable into updated testing equipment and computerised laboratory facilities that will improve catable into a wide variety of miscolled at one end, passon coating a coil of Aluxino—steel with an aluminism-zince coating on its surface—to see if it could be done. It worked, raising intriguing long-term possibilities about which no one at the same will be passed along a modern coil coating line at up to 300 metres a minute, or 12 mer hour. Stitching

ing aluminium prices—the cost applied.
of coils has gone up by 50 per
cent—and a frustrated, large export order to Nigeria. Neverthethe width of the aluminium

in Corby—and not a little worried.

Today it is the Euramax managers who are looking edgy
while the Alcan men are exultant. Alcan's man in charge.

year—compared with half in 1982—with building's share also dipping as transport and gutter-

gone into profit and the company is to spend substantial funds modernising it

possible scenario and that Euramax is on budget.

It has also changed its chief

The second of the

geted for with the two crises unforeseen.

Part of this is due to the successful and the

But depression in the caravan market suggests that it is a long way off the annual 2,500 tonnes it used to buy from Alcan in peak times, though Mr David Brown, the sales director, says that this sort of annual rate is more likely by the end of the year.

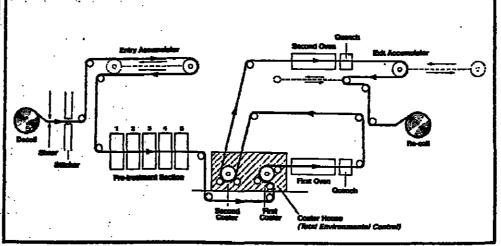
of the year. Euramax's big achievement, however, has been to get its new line going while at the same time building a new factory next door so that it could move its caravan cladding operation from Tring-the sort corporate traumas that cause mightmares.

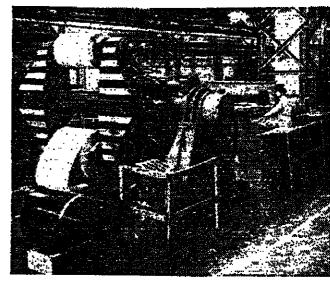
coating line, they have done so. The turnround in contribution between 1983 and 1982 was £250,000. In 1984, the Birming-ham plant is heading for £500,000 better than that—even though its success has prompted Alcan accountants to demand that it now bears a larger share of group overheads.

This has happened despite rising aluminium prices—the cost and modern, cold, no-rinse technology that will save energy and cut anti-pollution costs.

This will also create space in the line and there are hints that this could allow the installation of a new coater developed by Alcan in Canada which dispenses with rollers and enables transming aluminium prices—the cost and giving nothing away, Mr Walters points out cryptically that the company's parent, the U.S. of a new coater developed by Alcan in Canada which dispenses with rollers and enables transming aluminium prices—the cost and giving nothing away, Mr Walters points out cryptically that the company's parent, the U.S. of a new coater developed by Alcan in Canada which dispenses with rollers and enables transming aluminium prices—the cost and giving nothing away, Mr Walters points out cryptically that the company's parent, the U.S. of a new coater developed by alcan in Canada which dispenses with rollers and enables transming aluminium prices—the cost and giving nothing away, Mr Walters points out cryptically that the company's parent, the U.S. of a new coater developed by alcan in Canada which dispenses with rollers and enables transming aluminium prices—the cost and giving nothing away, Mr Walters points out cryptically that the company's parent, the U.S. of a new coater developed by alcan in Canada which dispenses with rollers and enables transming aluminium prices—the cost and giving nothing away, Mr Walters points out cryptically that the company's parent, the U.S. of a new coater developed by alcan accountants.

This will also create space in nothing away, Mr Walters profess out cryptically that the company's parent, the U.S. of a new coater developed by a new coate





Above: a diagram of Euramax's Corby line. Right: Alcan's Birmingham line.

The coil coating process

# What it means, how it works

COIL COATING is a simple has to be special, capable of process requiring complex technology. Its basic premise is that passes through a series of ovens, the easiest way to paint a sheet of metal is to lay it flat, thus ensuring an even coating of constraint and the process is backers.

make, transport or store steel

nology. Its basic premise is that the easiest way to paint a sheet of metal is to lay it flat, thus ensuring an even coating of consistent quality. The process is simply the means of doing just that.

But the most sensible way to paint a sheet of metal is to lay it flat, thus "coating" and "baking." On some lines there is also a facility after applying the bake," meaning that the profinal coat to laminate a film onto the surface. On some lines that, apply backer, apply primer, this film, or a thick coating, have dry apply topcoat, bake may have a pattern applied to

Acrylic: Flows well to give

perfect finishing and good flexibility when formed, but

has an outdoor life of only seven years. Price factor 1.\*

Polyester: Can be tailor-made to any end-use, with formulations variable to give wide ranges of gloss, weather-ing, flexibility, chemical

resistance or deep drawing capability. Outdoor exposure

life is ten years plus. Price factor 1+, depending on for-

Silicone polyester: Polyester modified with silicone

through twice, necessitating down-time in changing paint. Some of the most modern lines have facilities for a three coat,

The principal coatings

Plastisol: A dispersion of polyvinyl chloride (PVC) with

plasticisers, applied at up to ten times the thickness of nor-

mal paints, Dark colours are degradable by bright sun-light so use is restricted south

of the Alps. Thickness allows it to withstand care-lessness and abuse on build-ing sites. British Steel's main

coating for building industry. Price 2.5 to 3.5.

Fluerocarbons: usually a

mixture of polyvinylidene fluoride (PVDF or PVF2) and

have been working at well be-low capacity, so speed has not been crucial. Speeds will pick three bake process. Most of up with economic recovery and Phenix, which has a credit these are in Japan but a recent those old lines that are not yet 10 per cent market share.

study tour by European coil almost fully controlled with coaters revealed that no one is applying a third coat or using the third oven—yet. almost fully controlled with microprocessors, will probably have to be so automated in order to stay competitive. relatively, few and far between, reflecting lower demand for a more expensive product and an Manning levels on the lines are low in Europe and North Most lines are "two coat, two bake," meaning that the process goes de-coil, pretreat, apply backer, apply primer, bake dry, apply topcoat, bake dry, re-coil.

Older lines with only one drying oven have to pass coils through twice, necessitating through twice, necessitating bave been working at well behave been working at well behave describe aggressive marketing describe aggressive marketing

despite aggressive marketing

PVDF in formulation, with

Class A paints containing 70 per cent and Class B, 50 per

cent. Price factor 2.5 to 4+.

Non-stickt main ingredient is polytetrafluorethylene (PTFE) but this has such non-stick qualities that it has to be mixed with polyether-sulphone (PES) to coat anything at all, PES can itself be used as a coating for end-

uses requiring high heat resistance, as in bakeware,

Price factor varies too much

with end use for generalisa-

tion.

Non-stick: main ingredient

increasing range of uses for steel as coatings improve and wine out aluminium's former advantage of greater corrosion resistance as a substrate-which brings us to the coatings them-These have come a long way since the first coil coating lines were built 40 years ago to coat

narrow strip for venetian blinds. What dictates the choice of coating is the end-use for the finished metal.

If it is to be used for making caravans, for example, a high-gloss will be required but if kitchen bakeware is being made, the coating may well be non-stick on one side and thermoplastic resin on the other. If the finished material is to be vigorously formed—requiring, say, bends through 180 degrees, or deep drawing—the paint will have to be formulated so that it remains intact and does not lose adhesion from the metal when bent.

The properties required of paints compound the high-technology content of the in-dustry. So does drying them, since the ovens will often be driving off polluting hydrocar-bons used as solvents. This has led to elaborate catalytic cracking systems for the gases con-cerned, with heat being recycled

consolidated operations and learned more with each month that has passed—and we hope we are getting more clever all the time."

metal strip may have to be painted three times—a backing coat or lacquer on the "back" or bottom side, and a primer plus a topcoat on the "front" or topside. The paint therefore resin to increase outdoor life to 15 years. Relatively poor acrylic. Almost indestructible. Superior in all properties \*Prices vary with formulation less, the company managed to strip. A series of computer-cuat 5,500 trunes in 1983, com-confrolled solenoid valves can pared with the 6,000 it had be used to apply a second colour and volume, so can only be indicated relatively to each flexibility when formed, and can be degraded by bacteria. to all other coatings. Cost depends on proportion of back to the ovens so as to save All over Europe, Nixdorf helps repair cars that aren't even broken

ngineers can statistically predict when every part in an automobile is likely to fail.

This is true no matter how fine the car is, or how well built its part. Finally, everything goes.

The trick is to catch it before it has a chance to fail on the road, check it out, and replace it if necessary. Preventive maintenance, the engineers call it. The concept originated in the

airline business, because airlines can't have parts failing during flight.

But while an airline may have hundreds of planes in the air at any given time, an automobile manufacturer has millions of cars on the road during the same period. And each

car has thousands of parts. So while preventive maintenance for automobiles is a good idea theoretically, it becomes well-nigh

impossible when you try to put it into practice.

The permutations and combinations can be mind-boggling. But not to a Nixdorf Computer Network.

Which is one of the reasons why most major European automobile companies rely on Nixdorf to keep

their cars running.
They use Nixdorf hardware and software for distributed data processing, and inventory control (so they can lay their hands on a part

wherever it happens to be). Nixdorf computers keep track of which parts are being used up, predict when those parts will be needed, and automatically reorder and ship replacements, to maintain stocks around the world.

The same Nixdorf computers help service departments remind customers when to come in for service, and the computers identify the

parts which require careful scrutiny. The nice thing is that Nixdorf computers are so easy to use, that everyone in the service department soon learns to depend on them.

So the next time your car doesn't break down on a trip, don't thank your lucky stars. Thank Nixdorf.

NIXDORF COMPUTER

Telefon 52 51/50 61 30

Nixdorf Computer Ltd.

GB-Hounslow, Middlesex TW3 3JB

Nixdorf Computer AG Fürstenallee 7, D-4790 Paderborn

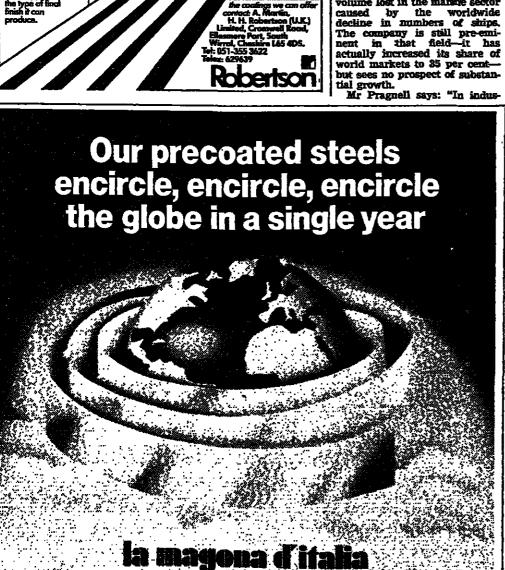
125-135 Staines Road

Fluorocarbon paints









KNOWS HOW:

# The suppliers' key to future prosperity

ACCORDING to Mr John Gattley, Pennwalt Plastics' UK director, the company is "big in little things." The approach has worked well enough to see the Philadelphia-based company, which has its own fluorspar mine, to worldwide sales of \$1,000m a year and nearly 20,000 employees.

One of the "little things" is a fluorocarbon resin called Kynar 500, Pennwalt's brand name for polyvinylidene fluoride, which in turn is more generally known as PVDF or PVF2. It is practically indestructible and, when mixed with a flowing acrylic paint, it provides steel sheet with a Rolls-Royce coat-

According to ICI's Dr Bob McGuinness: "It is a ridicu-lously priced product but they've got the lot of us over a barrel."

### Prudent

Pennwalt knows it: it is the world's only volume producer of PVDF for the world's paintmakers. And even though the strength of the dollar has encouraged Atochem in France and SKW in West Germany to start producing a similar type of PVDF in the last year, "me too" products always have an uphill fight against a well-established market leader—

Nevertheless, Pennwalt has felt it prudent to absorb some of the impact of the strong dollar, especially since there is an EEC tariff of 14 per cent

tors could be made from pre-

major area for future growth,

a new market, so what the com-

As Michael Praguell, manag

we can expect to see major

There is potential for signifi-cant growth in the UK and Italy but volumes will not be great."

Since International is alrea the leading supplier of spray

paints to white goods makers, it can afford to be sanguine about the matter. It has been talking to Hoover, Lec and AEG

doubts whether the manufac-

turers will switch many existing

The argument becomes differ-

ent when a new dine is being set up—as was the case at Hot-point—but this sort of invest-ment is unlikely until the world has recovered more substan-tially from recession.

But International needs to

develop in coll coating for several reasons, a principal one of which is that it must replace volume lost in the marine sector

ines to pre-finished material.

With domestic appliances elbow noom for anyone trying earmarked by the industry as a to break in but International is

a new market, so what the com-pany's management is now say-ing comes as something of a thick PVC coating with which

standably suspicious, though the multinational nature and ties of the only companies which could be involved make such a practice unlikely.

Kynar's indestructibility has conditioned buildings (PVC is being supersed buildings (PVC is being superseded because it is dangerous in first Kynarhased dangerous in fires; Kynar-based plastics are fire-resistant).

The third market, which accounts for a third of world sales but 70 per cent of sales in Europe, is in coatings.

Pennwait sees the prospects for Kynar expanding mightly as all three markets grow be-tween now and the end of the century. It has already extended its factory in Kentucky to up production by one-third and it is building a new plant in New Jersey so as to double this expanded capacity by May next

especially one prepared to guarantee buildings using Kynar-based paints against corrosion for decades.

Nevertheless, Pennwalt has see us into the 1990s." Pennwalt's system of getting Kynar into paint is another rea-son why only the most techni-cally capable paintmakers with

> Since the claddings market is continuing to expand, there is

anxious not to merely be a "me

too" competitor. "We have to bring something new with us,"

British Steel covers more strip than with anything else. With

ICI working on a "nephew of plastisol" the workhorse of the

claddings market now faces a pincer assault, but is it even

Mr Edward Kent-Coward, a

Substitution

Mr Pragnell says.

**International Paints** 

choosy to whom it will sell the that long term prospects for technology. Mr Gattley says: high sales volumes to the European Coil coating market ere Kynar licences to people with likely to depend on growing use technological expertise. We of fluorocarbon coatings on

### The major benefit is that buildings are likely to be sound 40 years after construction

always require evidence that coatings they develop will last."

Inevitably, therefore, the 21 that most in the industry see as that most in the industry see as likeliest for sustained growth. Companies without a Kynar Seeden, Belgium and Italy among a few leading paintmakers and their subsidiaries. Becker has four of them, ICI and International two each, Hoechst—through Hetberts in Germany and Berger in Britain—also has two.

building claddings. This is the area and these are the products that most in the industry see as likeliest for sustained growth. Companies without a Kynar licence are going to be left in the cold, probably concentrating on small but profitable specialised markets, such as holloware and bakeware, or carving ever-deeper niches for themselves in "old technology," such as plastisol.

The big companies, all of

Technological

band in band.

makes a great deal of sense, then, in attacking established

matkets. When the market is plastised, risk and corporate

always require evidence that building claddings. This is the

Britain has the largest member, through Becker, Berger, Goodlass Wall, ICI and International, followed by Germany with four, through Herberts, Wiederhold, Wulfang and Mehnert & Veeck.

Add the names of some of the other licensees, such as Corona and Ripolin-Duco in France, Sigma in Belgium, and Max Meyer, Italver Pittsburg and as steel drums) will eventually The big companies, all of

others.

Becker's coil coating sales are about 20 per cent of its turn-over in industrial paints. It claims a 20 per cent state of the market in Europe, Significantly, when it expanded into European manufacture and marketing by acquiring Coursey Coatings in Britain, Bichen in France, and Wulfing in Germany, the fact that they had

in home markets, but with the Becker group racing ahead on a pan-European basis, horly par-sued, from some way behind by the ICI group. International (which has a subsidiary on Becker home ground in Sweden) and the two Hoechst paint com-

panies. Meanwhile, trying to elbow its way into Britain now is another Kynar licensee. Sigma other Kynar licensee. Sigms to invest in buildings, such as Costings, the paintmaking sub-the managers of pension funds. sidiary of the Belgian-based petrochemicals group, Petrogna. Sigma is by far the largest supplier (it claims a 70-plus Mr Gattley says. "People are per cent share) of all types of looking for buildings that will paint to the Belgian steelmaker. last. They want reliability and Phenix, which in turn has a 10 a high quality of finish."

per cent share of European Coated steel.

It examples around the world Sigma also sells to coil of buildings made at a steel.

in, though as the main supplier of plastisol to Cladeolour, which

of resources by so many international companies is that Galvalume can guarantee that theoretarion paint technology the steel will match the paint fluorocarbon paint technology holds the key to future prosperity for coil coating suppliers. This in itself relies on another assumption—that the building then a colourful revolution in industry is going to increasing turn to soll coated fluoro carbons for claddings.

Add to this new paints that the paint for durability and quality—and the few fluorocarbon failures involved faulty substrates building design could be about to take place.

Add to this new paints that the paint for durability and quality—and the few fluorocarbon failures involved faulty substrates assumption.

Add to this new paints that the paint for durability and quality—and the few fluorocarbon failures involved faulty substrates assumption—that the building the few fluorocarbon failures involved faulty substrates assumption — that the building the few fluorocarbon failures involved faulty substrates building design could be about to take place.

Add to this new paints that

property seems to be that Kynar walt, which is spending \$85m which is what does the damage certainly hopes so.

against Kynar as an import from the U.S.

Since it is theoretically possible for companies in former EFTA countries like Sweden to escape this—so that their Kynar-based paints could be cheaper when sold into the EEC—when sold into the EEC—British, French, Italian and German paintmakers are understandably superious thoughly superious thoughly superious thoughly superious thoughly superious though the superious the superious though the superious the superious though the superious though the superious though the superious the superious though the superious the super the paint can get on with its job of protecting the substrate without ansune worrying about

going to creak up.

The energy is with a pointed piece of glass: the glass is invisible to light and is undirected by it, but the point will stop the light getting through. But paint a sheet of ice and the whole system will full when the temperature such hat energy to temperature gets hot enough to

What also happens is that most colours do not fade, so France, and Wulfing in their most colours do not mue, or many, the fact that they had most colours do not mue, or kymar licences, or were sech district someone these grash a nically good enough to win one, fortiles truck into a factory walk made of coll coated profiled was critical.

The result is that Becker now steel sheet the damaged penel has the widest geographical can be replaced with an approach of Kynar licences and exactly matching one.

the largest munter.

the largest mumber.

The picture then, among the Kynar production, it is also Kynar Heensees, is of most of eitical that its European them servicing and doing best in home markets, but with the it does so, the company has Becker group racing sheed on a pan-European basis, both pursued, from some way behind by the TCH group. International people at sells to, the paint-makers.

It is itself promoting the properties of floorcombon paints directly to architects, designers and people who take decisions to invest in buildings, such as the managers of pension funds.

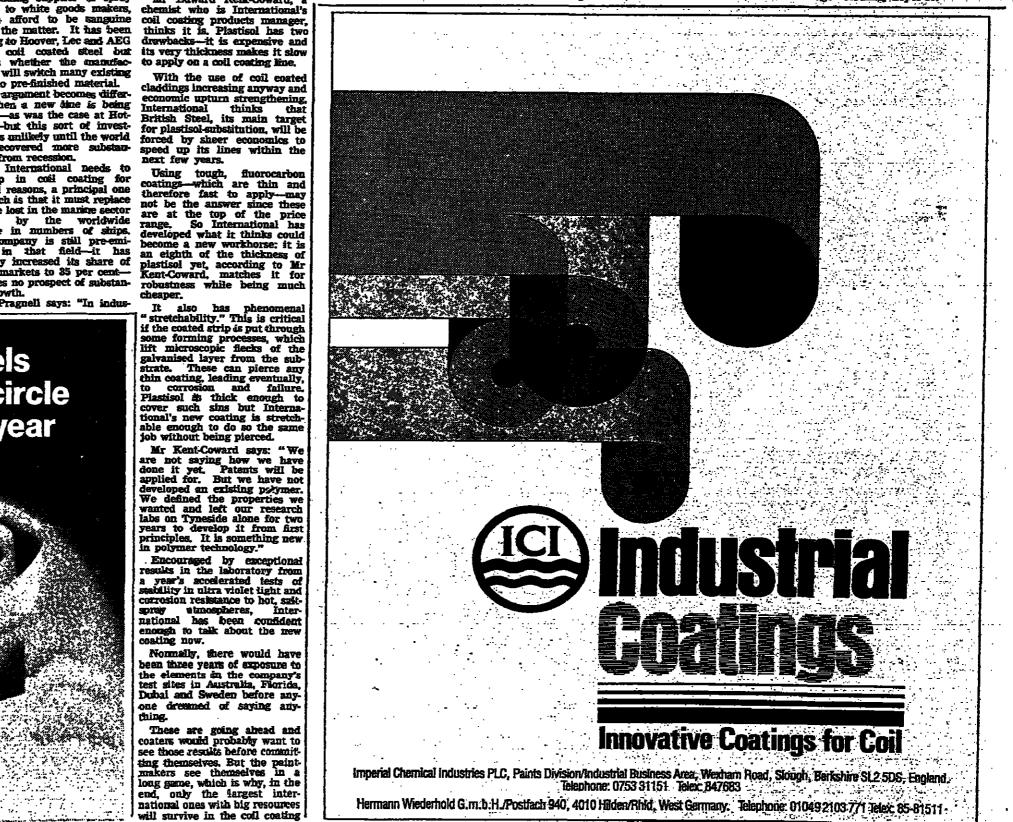
ser cent share of European There are now some spectacu-loated steel. Its examples around the world Sigma also sells to coil of buildings made of steel pre-Sigma and seas to cont of definings made of steel pre-coaters in France, Germany, finished on coil coating tines in Italy, Switzerland and Scan-Kynar-based paints. The days dinavia but John Conningham, of coil coated steel being a senior manager in charge, cheap way of putting up sheds admits that in Britain "We've are leag gone. Now, "prest-been observers for most of the gious" is often the word of the build-last five years." last five years." to describe some of the build-The drive is on now to break ings for which fluoroearbon in, though as the main supplier coatings are being specified.

of plastisol to Cladcolour, which is starting up its own small coil belief is that the is starting up its own small coil building is likely to be sound coating operation in South Wales, Signal may not have endeared itself to a stung British investor aiming to let it on a lease of that length and still behind this massive commitment assumption have a saleable or relettable asset at the end of that time. If new substrates such as

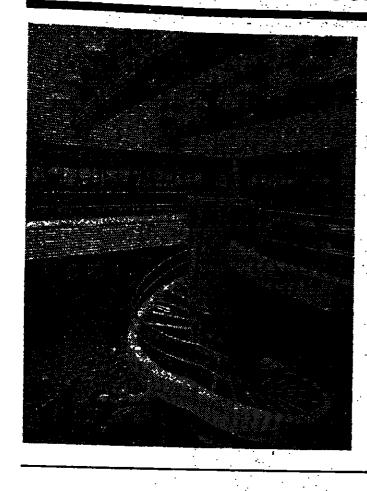
Why should it? An important can make coll-coated steel look reason is that fluorocombon like much more expensive anopsints are living up to the dised aluminium and it could claims made of them all over be a long time before demand the world. Their cratical for Kynar stops growing, Pennyaristy assume to be at Europe and the could be a long time before demand the world.

### Wraps come off son-of-plastisol At the same time, however, International does have to put down markers to demonstrate its presence in the marketplace. If its leap into domestic appliances is not going to yield hoped for sales volumes, it has to show it is in earnest in the buildings sector, which taking the new coating off the secret list does. Mr Pragnell says that growth in paint sales to coil coaters have grown by an annual 25 per cent for two years. But press he admits that the company is selling about half as much as KI, which last year ewped up to a miniscule £2m-worth in

Mr Michael Pragnell, manag-



### COIL COATINGS V





Coil-coated materials have traditionally been used mainly for exterior cladding and roofing but building interiors are now an important growth area. These photographs show coll-coated ceiling panels and an imaginatively-designed, coil-coated hallway

### Crown Paints

# 'Old hat' product is moneyspinner

coal coating product is being constantly knocked as old hat, Crown Paints is remarkably calm about its prespects.

The product is plastisol, the
thick PVC coating British
Steel puts on most of its

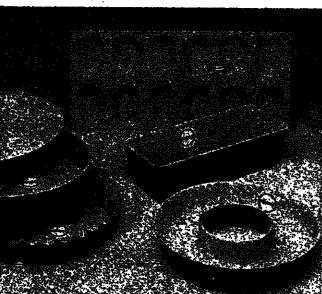
BSC's formulation is its own and three paintmakers-Crown, Berger and Norsk Hydro-make it to specification, an arrangement pooh-poohed by competitors such as Becker and ICI as insufficiently challenging to a real high-tech paintmaker's

All paintmakers in the field can supply plastisols, of course, but BSC has been content to stick to its own well-tried formation. Since BSC plastisol probably accounts for at least £5m-worth of sales each year it must be worthwhile to have a share of

Indeed, this figure is much more than what several large international paint companies now trying to elbow their way into the market are selling to coil ceaters throughout Europe. Even if ICI's assess-ment of the situation is cor-rect—which is that plastisol will maintain volume but lose share in expanding buildings markets—Crown, Berger and a et of money out of it.

Plastisol's crities point to its slowness of application, its tendency (in some darker colours) to chalk in strong sunlight, and its expense.

But the other side of the coin is that British Steel has ne plans to drop the coating which has been the backbone of its success in coated coil. BSC's Peter Burling points to



Non-stick kitchenware produced by Custom Coil Coaters has

large numbers of buildings in northern Europe where plasti-sel has performed well. More

Crown expects to find prove new markets—in the maintenance field, Crown's David Parkinson says: "We are the only BSC-approved supplier of overpainting systems for plastisol." The system consists of painting with a special primer to get adhesion and then applying a slicon alkyd topcoat.

"We are putting a lot of time and effort into develop-ing maintenance procedures,"

says Mr Parkinson. "We see this as a major growth area. If you say that the length of life of a steel building is about 40 years, coil coated plastisol will last for at least 15 before its first manitenance.

with anything. Crown, however, does not have all its eggs in the plastisol basket. It is a major supplier to the independent coil coater, H. H. Robertson, which uses British Steel in building applications but coats on a bespoke basis for the particular job in hand.

But you can't just paint it

Crown also supplies to Coated Strip, which coats fiddly bits of narrow width for things like edgings, and-

growth.
This last area is the pots This last area is the pots and paus business—bakeware and holloware for the kitchen. Crown claims to have been first to put a wide range of bright colours into pots and pans in 1975.

In those days Crown was also in the non-stick business but has now ceded the field to the poor will be graphing.

the other side — quite literally — of the pots and pans market.

Custom Coil now puts Du Pont's Tesson or Silverstone non-stick on one side of steel coll and Crown's Nuon costing on the other. The pre-finished metal is then formed into products such as jelly moulds, tart trays, flan dishes, or bakeware for the Sunday joint.

Crown's brightly coloured coefings are on the outside of the finished product. Some idea of their properties can be gauged from their ability to withstand three hours' immersion in boiling vege-table oil, two hours in a hot table oil, two hours in a hot oven, four cycles of heating ta 150 degrees centrigrade followed by shock cooling, and then survive being put through 180 degree bend tests without losing adhesion.

Mr Parkinson says: "We

appliance sector, which falls between bakeware and large appliances such as refrigerators. There will be a big battle with the powder coaters and all the manufacturers are trying both technologies, using powder for kettles and coll coaling for toasters. The demand for colour in the kitchen is definitely increasing. We think it could be a very good market to be in."

Years from now when he's become an international soccer star, exterior metal finishes based on KYNAR. 500 will still look new. Years of weathering and pollutants won't take the glow off this tough coating.

KYNAR 500 based coatings resist pollution, chalking, ultra violet deterioration and general weathering. KYNAR 500 finishes do not crack, craze or fade. So colour matched extensions to your building are no problem. Both accelerated and actual life tests prove it. There's no coating like it in the world.

Your building represents a significant investment. If your plans call for metal cladding using factory-applied paint to compete for the World Cup, investment and specify only KYNAR 500.

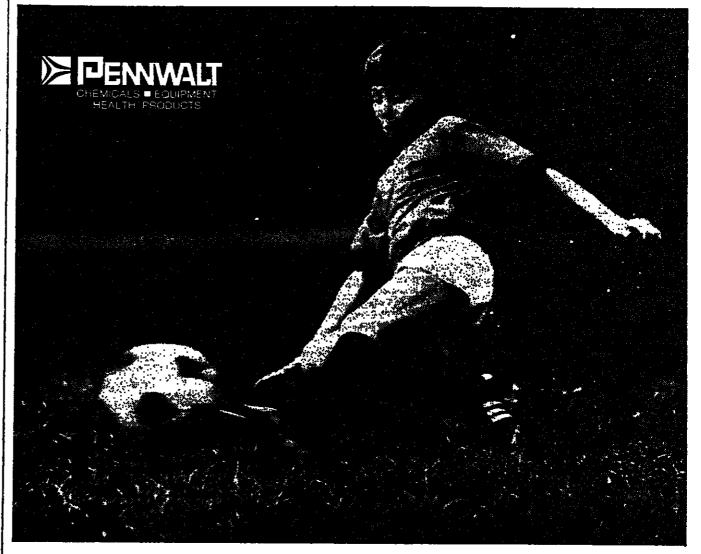
KYNAR 500-based coatings

KYNAR 500 applications

KYNAR 500 applications finishes then enhance your

For more information on KYNAR 500 applications write to Pennwalt Plastics Europe, Cherwell House, St.Clements, Oxford OX4 IBD, England or call 0865-726961; Telex: 837938

PP EUR G.



When he is old enough

will still be young.



# Intensive attack on UK market

WITH SALES in Continental at the surface, which enables it Europe up 160 per cent last to withstand more vigorous year, ICI is now intensifying forming processes.

There is little of it yet in Europe, where the main holders rose by only 9 per cent in 1983.

and a fierce competitor of the German company, wendurper, which has itself opened a UK base in Warrington. The new grouping means that ICI will be two classes of steel substrate dominating the market in be able to fight more effectively and on more fronts on sive fluorocarbon coatings and caster besis.

Galvalume is steel strip coared and technical back-up based on with a 45-55 mixture of aluminand zinc. Its virtues are four existing experience."

It work is considered times the corrosion resistance of normal galvanised substrates and greater mechanical strength and technical back-up based on experience."

Meanwhile, work is considered interest in seeing drums continue to be made in drums continue to be made spectators.

where sales to con coaters rose by only 9 per cent in 1983.

Significantly, the man in charge, Dr Bob McGufness, has moved back to Britain from West Germany, where his job involved setting up ICI's coil coating operations with its subsidiary Wiederhold. It is part of an increasingly high profile ICI is adopting in the Birmingham - based Holden Surface Coatings 18 months ago, with its substantial organisation, manufacturing base and markets in Fresse, Dr McGuiness claims that the ICI-Wiederhold-Holden group is now the biggest in European is now the biggest in European in the Balthelm Steel's licence to produce it are British Steel and the Belgian steelmaker, Phenix. But in the U.S. most Galvalume is used unpainted. Only in Australia, where it comprises much of John Lysaght's output of strip, does it go through coil coating lines.

Lysaght's main supplier of paint for this is ICI's Australian company, Dulux. Dr McGuiness expects European competition for the Galvalume market to be very tough but he also expects ICI's "world group" approach to give it the edge with European coaters. "Only we have real experience," he says.

At the same the man in the Belgian steelmaker, Phenix. But in the U.S. most Galvalume is used unpainted. Only in Australia, where it comprises much the Belgian steelmaker, Phenix. But in the U.S. most Galvalume is used unpainted. Only in Australia, where it comprises much to give unpainted. Only in Australia, where it comprises much to give unpainted. Only in Australia, where it comprises much to give unpainted. Only in Australia, where it comprises much to give unpainted. Only in Australia, where it comprises much to U.S. most Galvalume is used unpainted. Only in Australia, where it comprises much to give unpainted. Only in Australia, where it comprises much to give unpainted. Only in Australia, where it comprises much to give unpainted. Only in Australia, where it comprises much to give unpainted. Only in Australia, where it comprises of John Lysaght's output of strain, there it and the delega ICI-Wiederhold-Holden group is now the biggest in European coil coating after the Swedish market leader Becker.

He says that Holden's operations are complementary to ICI's—Holden is big in non-stick coatings, for example, Gaffan. British Steel is also involved.

tively and on more fronts on a pan-European basis.

But attrition is not the sole stratesy, for ICI believes it has an ace up its sleeve that will see it take a great leap forward in 1986. That is when forward in 1986. That is when straish Steel will start making Calvalume on its new line at Shotton. ICI if it plays its card right, should be able to grab the major share of paint supplies.

Galvalume is steel strip coated with a 45-55 mixture of alumin-with a 45



and and since the approach is different from International's, with ICI envisaging a paint system that would give the high-build of plastisol (which enables it withstand abuse), similar flexibility to cope with vigorous forming processes, but superior weathering processes, but superior successfully on attending to the first but these from a long-term high these from a long-term

more optimistic than some com-petitors about coil coaters sell-ing much more pre-finished material for office furniture and

domestic appliances.

He says: "Hoover have been toing and froing. Kassel and AEG are going. About 30,000 tomes of steel were used in the turnes in seet were used in the European domestic appliance market last year. Full credit to International Paint for their work with Hotpoint. They did the whole industry a favour but the rest of us have now caught ""."

But it is not only in coating Galvalume that ICI expects to benefit from ats Australian ex-perience. According to Dr McGuiness "we have teams working on several things that

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The European Coil Coating Association

# Drive to tap new markets

products rather than itself.

These are significant changes in outlook and approach which could boost natural growth of the industry further. That natural growth is, of course, the major reason why the ECCA has taken so long to get itself

direction.

Founded in 1966, the organisation set out to research, promote and study all aspects of coil coating. Most of its members are not coil coate; but suppliers of paint, chemicals, plant and equipment. Only 51 are coil coaters, all of them customers or potential customers of the other members.

But with the steel fordusers.

But with the steel industry in particular notoriously pro-duction-oriented throughout Europe, the ECCA has appeared comewhat introverted for most of its life. The fact that markets were growing anyway hardly encouraged people to ask if they were growing as fast as they might

So ECCA's conferences have sometimes appeared to be well-run technical gatherings where hard-headed production men met to hear weighty papers on important, but sometimes esoteric matters. On top of that is the jargon

of the industry itself. Even the name "coil coating" brings puzzled looks from non-technical managers in manufacturing or construction or the financial sector—the very decision-makers to whom the concept, with its potential for saving or safe-guarding large sums of money, ought to appeal.

The analogy is with trying to sell Mars bars through long discourses on how to make chocolate, nougat and toffee and what the problems are in printing the name on the wrapper.
The ECCA's change in out-

look has come about gradually over the last two or three years, followed by a spurt forward as a result of reorganising things in Brussels more recently.

outlook has become apparent doubtedly been due to Mr British Steel's sales manager for in the European Coil Coating Norman Makins, recently retired coated products. For the first Association in the last few from British Steel, who finishes in the European Coil Coating Association in the last few from British Steel, who finishes months. The ECCA has reat two-year stint as ECCA presiment its Brussels office, dent this summer, when he will some promotional services, and has been putting much more effort be succeeded by Mr Henry Otto of the Dutch coil coater, Hunter be succeeded by Mr Henry Otto of the Dutch coil coater, Hunter been putting much more effort boughas, another man with the into promoting the industry's marketing outlook.

Norman Makins, recently retired from British Steel, who finishes time in ECCA history this committee now seems to be regarded as more important than its technical counterpart.

Mr Ed Crockett, who has this year been working full-time as strong marketing outlook.

Mr Makins says: "Growth has been phenomenal over the last decade and has continued despite recession. But the indus-try cannot afford to relax. There is a need to develop existing markets and identify and exploit new ones."

tion, particularly in key industrial sectors where alternative products and processes are being marketed aggressively.

"With European industry coming out of recession I expect the ECCA and its members to consolidate on gains made already and be ready to capitalise on new market capitalise on new market opportunities."

Catching any upswing in the European economy is seen as wital to coil coating's further growth. Promotion of existing and new end-uses is in turn seen as critical in achieving that, with drives on in the white goods market, and in the use of expensively coated, technically advanced steel substrates for a much wider range of buildings than factories and offices.

Some individual coaters have been doing such promotion quite vigorously already, of course, and some suppliers have also worked hard to get the "paint first, fabricate later" message across to senior managers responsible for invest-ment decisions. But the industry as a whole in Europe has failed in this area, a stark contrast to the ECCA's counterpart in the U.S.

To change this the associa-tion's marketing committee has been beefed up under the chair-

the ECCA's marketing consultant, says: "The immediate problem areas were easy to identify, such as linguistic barriers, heterogeneous product ranges, entrenched "market-ing" philosophies, and reluct-ance to disclose some information. Solutions have been less

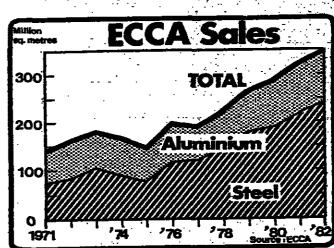
He says that there has been a developing realisation that collective action is not only possible but capable of being effective. "Above all, there is effective. "Above all, there is a new willingness to bridge the gap between coil coater and the industrial end-user by ex-amining potential problem areas and possible reasons for product resistance," he adds.

Changes at the ECCA's head-quarters in the Rue Montoyer have seen Ms Maria Dam ap pointed to its secretaryship. She has set about improving feedback both from the market-place and from members to the Brussels secretariat and expects this to make a great deal of difference to the ECCA's management of information about the industry.

Much of this is now in a large loose-leaf binder issued to mem-bers and divided into 15 seccovering such subjects as market trends, new required reading, technical developments and statistics. It is up-



Mr Henry Otto, president-designate: concerned about Mr Ed Crockett, market-ing consultant; encouraging



dated monthly. At the same time an amhi-tious handbook on what the industry does and can do is being prepared, the ECCA is going into more trade fairs, and an audio-visual presentation is on

the way. Another sign that the industry paigns.

is getting its marketing act together is that members are putting up money for joint pro-motion, with national member groups exploring the possibili-ties of direct mail marketing and collective national and international advertising cam-

Ms Meria Dam, secretaria head improving feedback from the marketplace

The example of the National The example of the National Coil Coating Association in the U.S. is clearly in everyone's mind. There, the NCCA's main role in the 1970s was to lobby hard in Washington to fight the prospects of the industry being hampered unreasonably by antipollution legislation.

But the arrival of the Reagan administration and recession changed priorities overnight and the NCCA switched most of its efforts into finding new markets for the industry as a whole. This led to large gains in the white goods sector and in the manufacture of other domestic appliances, with most new appliance production lines in 1983 designed for pre-finished raw material.

A new market was opened in houses and farm buildings, so that as recovery has started to revive the traditional construction market, the total market for costed coll looks like becoming bigger than ever. The ECCA hopes that Europe

properly persuaded for the first

The international scene

# Western eyes turn to Japan

THE "GOOD OLD DAYS" appear to be dawning again in the American coil coating industry. In the depths of recession these were remembered as the period up to 1979, when growth averaged an annual 16 per cent for more than 10 percent. per cent for more than 10 years.

Then, two years of slowing down were followed, in 1982, by a 13 per cent reverse. Last year, however, saw the industry bouncing back, putting on 12 per cent in the first half-year alone with spectacular gains in

new markets.

A hot summer helped, sending up demand for air conditioners. This benefited coil first, fabricate later and used coated steel for casings and other components. This led to a 75 per cent rise in coated steel consumption for

these products.

The coil coating message had been pushed hard during recession as a means of cutting down manufacturing costs through

sumed by the U.S. building and car industries.

In fact, demestic appliances accounted for only 4 per cent of sales of coated coil — an exactly similar percentage to Europe, and possibly confirming the views of some European paintmakers that this market will never be the volume bonanza which some steelmakers have predicted.

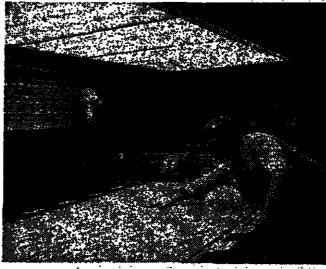
In the U.S., the construction industry consumed 361,000

industry consumed 361,000 tonnes of coated steel and 108,000 of aluminium, the former growing by nearly 19 per cent year on year but the latter by less than 3 per cent.

The weather provided another windfall, however, with another windfall, however, with farmers short of storage space for bumper grain crops. The coll coaters leapt in to promote quickly-erected coated steel barns that could also be used as multi-purpose sheds after-wards. The result was a 35 per cent growth in sales for farm Meanwhile, in Europe the

growth of coil coating slowed to 7.4 per cent in 1982 as recession bit. But here too it has bounced back in 1983. Roof and wall claddings showing nearly 30 per cent growth in the early part of the year, and other exterior uses went up by nearly 20 per cent. But interior uses, such as floors and cellings, rose by only 3.5 per cent.

In Europe, national producers continued to dominate home markets, with the real fight for market share taking place among paintmakers. Theoretically, there can be quota-free competition on finished goods but this is marginal.



The German steelmaker, Hoesch, has adapted its Pladul heat transfer printing system (above) so that continuous patterns can be produced on coil coating lines.

manufacturing costs through not having to run paint shops. This led to refrigerator makers in particular switching to prefinished steel for outer wrappers and inner liners.

At the same time, makers of these and other domestic appliances designed any new lines to use finished raw material, with microwave ovens in particular emerging as a higher through the steel of the same time, makers of these and other domestic appliances designed any new lines to use finished raw lines to use finished lines lines lines to use finished lines lines lines lines to use finished lines lines lines

Phenix has gone ahead with its based in Warrington, says that third coll coating line, a monorm new designs to appeal to the one capable of coating 200,000 British market are on the way.

material, with microwave ovens in particular emerging as a big and growing market. Overall, coated steel deliveries to the domestic appliance sector grew by 37 per cent to 54,500 tonnes in the half-year.

Weather windfall

Huge though this figure is, however, it must be seen against the large tonnages consumed by the U.S. building and car industries.

In fact, domestic appliances a big material, with microwave ovens as being line, a moocenn new designs to appeal to the British market are on the way, tonnes a year on its own, which is almost as much as British Steel will produce on five lines in 1984.

With Phenix's growth rate running at about 25 per cent and year—compared with a European average of 15 per cent and projections of 8-10 per cent—about to open up in a very big other coaters may be put on their mettle. The new line is expected to concentrate on building industry products. Phenix already claims a 10 per cent share of the total European

cent share of the total European market.

Meanwhile, Sweden is second only to the U.S. in per capita consumption of precoated sheet, with annual output recently estimated at 15 per cent of the European total. Since its own home market for building claddings is now saturated, however, the search for new markets is particularly

### **Decoration**

In Germany there is a strong movement towards decoration in coating, with Hoeseh Sieger-landwerke and the paintmaker Weilburger developing techniques for continuous printing of decorative motifs onto precoated sheet.

Pladur system for heat transfer puinting on to individual sheets, a costly batch process.

The new process puts the decoration onto the coil, the system comprising a primer, topcoat and the transfer print-ing of the design from pre-printed paper. What is printed paper. What is ingenious about it is that the topcoat is completely clear, so that the pigments forming the pattern are diffused at high temperatures through the paint to end up under the topcost. This makes it impossible for the designs to be removed or damaged when the coll is un-rolled for shearing, stamping, drawing, seaming or roll-forming. The cured coating has high

Meanwhile, Western eyes have recently been on Japan to see if its steel and paint industries have spotted some thing the Europeans and Americans have missed. An ECCA delegation drawn

from all over Europe visited Japan last month to find that the major problems in the market there were developing cost-ings that would withstand tre-mendous climatic abuse. The problems arise from Japan's yearly mixture of maritime weather, typhoons, wide ex-tremes of temperature and

Dr Beb McGuiness of ICI said to suggest that they would be coming into the European market next week. But we all came away with a healthy respect for

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their way of working." Apparently, the industry in Europe, proud though it is of being highly capital intensive, has much to learn from Japan,

where every line seen was run by far fewer people than would be required in Europe. With sill the developed comtries pushing hard to make in-

creasingly more appliances and consumer durables out of prefinished steel, the implications are that productivity on the coil coating line must sarrely have some eventual influence on the price of the finished goods in the High Street.

So despite the fact that most high volume coil coaters will probably continue to enjoy monopolies in their national home markets for building products, manning the technology ducts, manning the technology efficiently is bound to affect international competitiveness in other key areas.



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